



STIC Search Report

Biotech-Chem Library

STIC Database Tracking Number: 114539

TO: Karen C Carlson
Location: rem/3d85/3c70
Art Unit: 1653
Monday, February 23, 2004

Case Serial Number: 09/989994

From: Alex Waclawiw
Location: Biotech-Chem Library
Rem 1A71
Phone: 308-4491

Alexandra.waclawiw@uspto.gov

Search Notes

Karen,

I'm still working on searching the
three sequences against the application.

Alex

GenCore version 5.1.6
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OM protein - protein search, using sw model

Run on: February 23, 2004, 11:42:13 ; Search time 27 Seconds

(without alignments)
54,284 Million cell updates/sec

Title: US-09-989-994-395

Perfect score: 35

Sequence: 1 DRSNLTR 7

Scoring table: BLOSUM62

Gapop 10.0 , Gapext 0.5

Searched: 801455 seqs, 209382283 residues

Total number of hits satisfying chosen parameters: 140

Minimum DB seq length: 0

Maximum DB seq length: 2000000000

Post-processing: Minimum Match 100%

Maximum Match 100%

Listing first 2000 summaries

Database :

Published Applications AA:*

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Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

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138 35 100.0 7 15 US-10-006-069A-198 Sequence 198, Appl
139 35 100.0 7 15 US-10-055-713-37 Sequence 37, Appl
140 35 100.0 7 15 US-10-055-711-41 Sequence 41, Appl

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ALIGNMENTS

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; Sequence 395, Application US/09989789
; Patent No. US20020063379A1
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; GENERAL INFORMATION:
; APPLICANT: LIT, Qiang
; TITLE OF INVENTION: POSITION DEPENDENT RECOGNITION OF GNN NUCLEOTIDE
; FILE REFERENCE: 8325-0011.20 / S11-US2
; CURRENT APPLICATION NUMBER: US/09/989,789
; CURRENT FILING DATE: 2002-03-25
; NUMBER OF SEQ ID NOS: 4085
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 395
; LENGTH: 7
; TYPE: PRT

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; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: example zfp
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Query Match          100.0%; Score 35; DB 9; Length 7;
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Db 1 DRSNLT 7

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; GENERAL INFORMATION:
; APPLICANT: LIT, Qiang
; TITLE OF INVENTION: POSITION DEPENDENT RECOGNITION OF GNN NUCLEOTIDE
; FILE REFERENCE: 8325-0011.20 / S11-US2
; CURRENT APPLICATION NUMBER: US/09/989,789
; CURRENT FILING DATE: 2002-03-25
; NUMBER OF SEQ ID NOS: 4085
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 1376
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; ORGANISM: Artificial Sequence
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; OTHER INFORMATION: Description of Artificial Sequence: example zfp
US-09-989-789-1376

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Best Local Similarity 100.0%; Pred. No. 7e+05;
Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

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Db 1 DRSNLT 7

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; GENERAL INFORMATION:
; APPLICANT: LIT, Qiang
; TITLE OF INVENTION: POSITION DEPENDENT RECOGNITION OF GNN NUCLEOTIDE
; FILE REFERENCE: 8325-0011.20 / S11-US2
; CURRENT APPLICATION NUMBER: US/09/989,789
; CURRENT FILING DATE: 2002-03-25
; NUMBER OF SEQ ID NOS: 4085
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 1454
; LENGTH: 7
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: example zfp
US-09-989-789-1454

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Query Match          100.0%; Score 35; DB 9; Length 7;
Best Local Similarity 100.0%; Pred. No. 7e+05;
Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

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QY 1 DRSNLT 7
   |||||
Db 1 DRSNLT 7

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Query Match          100.0%; Score 35; DB 9; Length 7;
Best Local Similarity 100.0%; Pred. No. 7e+05;
Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

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QY 1 DRSNLT 7
   |||||
Db 1 DRSNLT 7

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; Patent No. US20020063379A1
; GENERAL INFORMATION:
; APPLICANT: LIU, Qiang
; TITLE OF INVENTION: POSITION DEPENDENT RECOGNITION OF GNN NUCLEOTIDE
; FILE REFERENCE: 8325-0011.20 / S11-US2
; CURRENT APPLICATION NUMBER: US/09/989,789
; CURRENT FILING DATE: 2002-03-25
; NUMBER OF SEQ ID NOS: 4085
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 1464
; LENGTH: 7
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: example ZFP
US-09-989-789-1464

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Best Local Similarity 100.0%; Score 35; DB 9; Length 7;
Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 DRSNLTR 7
DB 1 DRSNLTR 7

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; Patent No. US20020063379A1
; GENERAL INFORMATION:
; APPLICANT: LIU, Qiang
; TITLE OF INVENTION: POSITION DEPENDENT RECOGNITION OF GNN NUCLEOTIDE
; FILE REFERENCE: 8325-0011.20 / S11-US2
; CURRENT APPLICATION NUMBER: US/09/989,789
; CURRENT FILING DATE: 2002-03-25
; NUMBER OF SEQ ID NOS: 4085
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 1525
; LENGTH: 7
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: example ZFP
US-09-989-789-1525

Query Match
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Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 DRSNLTR 7
DB 1 DRSNLTR 7

RESULT 6
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; Patent No. US20020063379A1
; GENERAL INFORMATION:
; APPLICANT: LIU, Qiang
; TITLE OF INVENTION: POSITION DEPENDENT RECOGNITION OF GNN NUCLEOTIDE
; FILE REFERENCE: 8325-0011.20 / S11-US2
; CURRENT APPLICATION NUMBER: US/09/989,789
; CURRENT FILING DATE: 2002-03-25
; NUMBER OF SEQ ID NOS: 4085
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; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 1553
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US-09-989-789-1553

Query Match
Best Local Similarity 100.0%; Score 35; DB 9; Length 7;
Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 DRSNLTR 7
DB 1 DRSNLTR 7

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; Sequence 1559, Application US/09989789
; Patent No. US20020063379A1
; GENERAL INFORMATION:
; APPLICANT: LIU, Qiang
; TITLE OF INVENTION: POSITION DEPENDENT RECOGNITION OF GNN NUCLEOTIDE
; FILE REFERENCE: 8325-0011.20 / S11-US2
; CURRENT APPLICATION NUMBER: US/09/989,789
; CURRENT FILING DATE: 2002-03-25
; NUMBER OF SEQ ID NOS: 4085
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 1559
; LENGTH: 7
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: example ZFP
US-09-989-789-1559

Query Match
Best Local Similarity 100.0%; Score 35; DB 9; Length 7;
Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 DRSNLTR 7
DB 1 DRSNLTR 7

RESULT 8
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; Patent No. US20020063379A1
; GENERAL INFORMATION:
; APPLICANT: LIU, Qiang
; TITLE OF INVENTION: POSITION DEPENDENT RECOGNITION OF GNN NUCLEOTIDE
; FILE REFERENCE: 8325-0011.20 / S11-US2
; CURRENT APPLICATION NUMBER: US/09/989,789
; CURRENT FILING DATE: 2002-03-25
; NUMBER OF SEQ ID NOS: 4085
; SOFTWARE: PatentIn Ver. 2.0
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; LENGTH: 7
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: example ZFP
US-09-989-789-1564

Query Match
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Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
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Qy 1 DRSNLT 7
1 DRSNLT 7
Db 1 DRSNLT 7

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US-09-989-789-1577
; Sequence 1577, Application US/09989789
; Patent No. US20020063379A1
; GENERAL INFORMATION:

; APPLICANT: LIU Qiang
; TITLE OF INVENTION: POSITION DEPENDENT RECOGNITION OF GNN NUCLEOTIDE
; FILE REFERENCE: 8325-0011.20 / S11-US2
; CURRENT APPLICATION NUMBER: US/09/989,789
; CURRENT FILING DATE: 2002-03-25
; NUMBER OF SEQ ID NOS: 4085
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 1577
; LENGTH: 7
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:

US-09-989-789-1577
OTHER INFORMATION: Description of Artificial Sequence: example ZFP

Query Match 100.0%; Score 35; DB 9; Length 7;
Best Local Similarity 100.0%; Pred. No. 7e+05; Indels 0; Gaps 0;
Matches 7; Conservative 0; Mismatches 0;

Qy 1 DRSNLT 7
1 DRSNLT 7
Db 1 DRSNLT 7

RESULT 10
US-09-989-789-1899
; Sequence 1899, Application US/09989789
; Patent No. US20020063379A1
; GENERAL INFORMATION:

; APPLICANT: LIU Qiang
; TITLE OF INVENTION: POSITION DEPENDENT RECOGNITION OF GNN NUCLEOTIDE
; FILE REFERENCE: 8325-0011.20 / S11-US2
; CURRENT APPLICATION NUMBER: US/09/989,789
; CURRENT FILING DATE: 2002-03-25
; NUMBER OF SEQ ID NOS: 4085
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 1899
; LENGTH: 7
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:

US-09-989-789-1899
OTHER INFORMATION: Description of Artificial Sequence: example ZFP

Query Match 100.0%; Score 35; DB 9; Length 7;
Best Local Similarity 100.0%; Pred. No. 7e+05; Indels 0; Gaps 0;
Matches 7; Conservative 0; Mismatches 0;

Qy 1 DRSNLT 7
1 DRSNLT 7
Db 1 DRSNLT 7

RESULT 11
US-09-989-789-2668
; Sequence 2668, Application US/09989789
; Patent No. US20020063379A1
; GENERAL INFORMATION:

; APPLICANT: LIU Qiang
; TITLE OF INVENTION: POSITION DEPENDENT RECOGNITION OF GNN NUCLEOTIDE
; FILE REFERENCE: 8325-0011.20 / S11-US2
; CURRENT APPLICATION NUMBER: US/09/989,789
; CURRENT FILING DATE: 2002-03-25
; NUMBER OF SEQ ID NOS: 4085
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 2668
; LENGTH: 7
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:

FILE REFERENCE: 8325-0011.20 / S11-US2
CURRENT APPLICATION NUMBER: US/09/989,789
CURRENT FILING DATE: 2002-03-25
NUMBER OF SEQ ID NOS: 4085
SOFTWARE: PatentIn Ver. 2.0
SEQ ID NO 2668
LENGTH: 7
TYPE: PRT
ORGANISM: Artificial Sequence
FEATURE:

US-09-989-789-2668
OTHER INFORMATION: Description of Artificial Sequence: example ZFP

Query Match 100.0%; Score 35; DB 9; Length 7;
Best Local Similarity 100.0%; Pred. No. 7e+05; Indels 0; Gaps 0;
Matches 7; Conservative 0; Mismatches 0;

Qy 1 DRSNLT 7
1 DRSNLT 7
Db 1 DRSNLT 7

RESULT 12
US-09-989-789-2705
; Sequence 2705, Application US/09989789
; Patent No. US20020063379A1
; GENERAL INFORMATION:

; APPLICANT: LIU Qiang
; TITLE OF INVENTION: POSITION DEPENDENT RECOGNITION OF GNN NUCLEOTIDE
; FILE REFERENCE: 8325-0011.20 / S11-US2
; CURRENT APPLICATION NUMBER: US/09/989,789
; CURRENT FILING DATE: 2002-03-25
; NUMBER OF SEQ ID NOS: 4085
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 2705
; LENGTH: 7
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:

US-09-989-789-2705
OTHER INFORMATION: Description of Artificial Sequence: example ZFP

Query Match 100.0%; Score 35; DB 9; Length 7;
Best Local Similarity 100.0%; Pred. No. 7e+05; Indels 0; Gaps 0;
Matches 7; Conservative 0; Mismatches 0;

Qy 1 DRSNLT 7
1 DRSNLT 7
Db 1 DRSNLT 7

RESULT 13
US-09-989-789-2737
; Sequence 2737, Application US/09989789
; Patent No. US20020063379A1
; GENERAL INFORMATION:

; APPLICANT: LIU Qiang
; TITLE OF INVENTION: POSITION DEPENDENT RECOGNITION OF GNN NUCLEOTIDE
; FILE REFERENCE: 8325-0011.20 / S11-US2
; CURRENT APPLICATION NUMBER: US/09/989,789
; CURRENT FILING DATE: 2002-03-25
; NUMBER OF SEQ ID NOS: 4085
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 2737
; LENGTH: 7
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:

US-09-989-789-2737
OTHER INFORMATION: Description of Artificial Sequence: example ZFP

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Query Match          100.0%; Score 35; DB 9; Length 7;
Best Local Similarity 100.0%; Pred. No. 7e+05;
Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 DRSNLTR 7
   |||||
Db 1 DRSNLTR 7

RESULT 14
US-09-989-789-2791
; Sequence 2791, Application US/09989789
; Patent No. US20020063379A1
; GENERAL INFORMATION:
; APPLICANT: LIU, Qiang
; TITLE OF INVENTION: POSITION DEPENDENT RECOGNITION OF GNN NUCLEOTIDE
; FILE REFERENCE: 8325-0011.20 / S11-US2
; CURRENT APPLICATION NUMBER: US/09/989,789
; CURRENT FILING DATE: 2002-03-25
; NUMBER OF SEQ ID NOS: 4085
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 2791
; LENGTH: 7
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: example zfp
US-09-989-789-2791

Query Match          100.0%; Score 35; DB 9; Length 7;
Best Local Similarity 100.0%; Pred. No. 7e+05;
Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 DRSNLTR 7
   |||||
Db 1 DRSNLTR 7

RESULT 15
US-09-989-789-2792
; Sequence 2792, Application US/09989789
; Patent No. US20020063379A1
; GENERAL INFORMATION:
; APPLICANT: LIU, Qiang
; TITLE OF INVENTION: POSITION DEPENDENT RECOGNITION OF GNN NUCLEOTIDE
; FILE REFERENCE: 8325-0011.20 / S11-US2
; CURRENT APPLICATION NUMBER: US/09/989,789
; CURRENT FILING DATE: 2002-03-25
; NUMBER OF SEQ ID NOS: 4085
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 2792
; LENGTH: 7
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: example zfp
US-09-989-789-2792

Query Match          100.0%; Score 35; DB 9; Length 7;
Best Local Similarity 100.0%; Pred. No. 7e+05;
Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 DRSNLTR 7
   |||||
Db 1 DRSNLTR 7

RESULT 16
US-09-989-789-2887
; Sequence 2887, Application US/09989789
; Patent No. US20020063379A1
; GENERAL INFORMATION:
; APPLICANT: LIU, Qiang
; TITLE OF INVENTION: POSITION DEPENDENT RECOGNITION OF GNN NUCLEOTIDE
; FILE REFERENCE: 8325-0011.20 / S11-US2
; CURRENT APPLICATION NUMBER: US/09/989,789
; CURRENT FILING DATE: 2002-03-25
; NUMBER OF SEQ ID NOS: 4085
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 2887
; LENGTH: 7
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: example zfp
US-09-989-789-2887

Query Match          100.0%; Score 35; DB 9; Length 7;
Best Local Similarity 100.0%; Pred. No. 7e+05;
Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 DRSNLTR 7
   |||||
Db 1 DRSNLTR 7

RESULT 17
US-09-989-789-2995
; Sequence 2995, Application US/09989789
; Patent No. US20020063379A1
; GENERAL INFORMATION:
; APPLICANT: LIU, Qiang
; TITLE OF INVENTION: POSITION DEPENDENT RECOGNITION OF GNN NUCLEOTIDE
; FILE REFERENCE: 8325-0011.20 / S11-US2
; CURRENT APPLICATION NUMBER: US/09/989,789
; CURRENT FILING DATE: 2002-03-25
; NUMBER OF SEQ ID NOS: 4085
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 2995
; LENGTH: 7
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: example zfp
US-09-989-789-2995

Query Match          100.0%; Score 35; DB 9; Length 7;
Best Local Similarity 100.0%; Pred. No. 7e+05;
Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 DRSNLTR 7
   |||||
Db 1 DRSNLTR 7

RESULT 18
US-09-989-789-2996
; Sequence 2996, Application US/09989789
; Patent No. US20020063379A1
; GENERAL INFORMATION:
; APPLICANT: LIU, Qiang
; TITLE OF INVENTION: POSITION DEPENDENT RECOGNITION OF GNN NUCLEOTIDE
; FILE REFERENCE: 8325-0011.20 / S11-US2
; CURRENT APPLICATION NUMBER: US/09/989,789
; CURRENT FILING DATE: 2002-03-25
; NUMBER OF SEQ ID NOS: 4085
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 2996
; LENGTH: 7
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: example zfp
US-09-989-789-2996
```

FEATURE:

OTHER INFORMATION: Description of Artificial Sequence: example ZFP
US-09-989-789-2996

Query Match 100.0%; Score 35; DB 9; Length 7;
Best Local Similarity 100.0%; Pred. No. 7e+05;
Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 DRSNLTR 7
DB 1 DRSNLTR 7

RESULT 19

US-09-989-789-2999
Sequence 2999, Application US/09989789
Patent No. US2002063379A1

GENERAL INFORMATION:
APPLICANT: LIU, Qiang
TITLE OF INVENTION: POSITION DEPENDENT RECOGNITION OF GNN NUCLEOTIDE
FILE REFERENCE: 8325-0011.20 / S11-US2

CURRENT APPLICATION NUMBER: US/09/989,789
CURRENT FILING DATE: 2002-03-25
NUMBER OF SEQ ID NOS: 4085
SOFTWARE: PatentIn Ver. 2.0
SEQ ID NO 2999

LENGTH: 7

TYPE: PRT

ORGANISM: Artificial Sequence
FEATURE:
OTHER INFORMATION: Description of Artificial Sequence: example ZFP
US-09-989-789-2999

Query Match 100.0%; Score 35; DB 9; Length 7;
Best Local Similarity 100.0%; Pred. No. 7e+05;
Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 DRSNLTR 7
DB 1 DRSNLTR 7

RESULT 20

US-09-989-789-3006
Sequence 3006, Application US/09989789
Patent No. US2002063379A1

GENERAL INFORMATION:
APPLICANT: LIU, Qiang
TITLE OF INVENTION: POSITION DEPENDENT RECOGNITION OF GNN NUCLEOTIDE
FILE REFERENCE: 8325-0011.20 / S11-US2

CURRENT APPLICATION NUMBER: US/09/989,789
CURRENT FILING DATE: 2002-03-25
NUMBER OF SEQ ID NOS: 4085
SOFTWARE: PatentIn Ver. 2.0
SEQ ID NO 3006

LENGTH: 7

TYPE: PRT

ORGANISM: Artificial Sequence
FEATURE:
OTHER INFORMATION: Description of Artificial Sequence: example ZFP
US-09-989-789-3006

Query Match 100.0%; Score 35; DB 9; Length 7;
Best Local Similarity 100.0%; Pred. No. 7e+05;
Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 DRSNLTR 7
DB 1 DRSNLTR 7

RESULT 21

US-09-989-789-3131
Sequence 3131, Application US/09989789
Patent No. US2002063379A1

GENERAL INFORMATION:
APPLICANT: LIU, Qiang
TITLE OF INVENTION: POSITION DEPENDENT RECOGNITION OF GNN NUCLEOTIDE
FILE REFERENCE: 8325-0011.20 / S11-US2

CURRENT APPLICATION NUMBER: US/09/989,789
CURRENT FILING DATE: 2002-03-25
NUMBER OF SEQ ID NOS: 4085
SOFTWARE: PatentIn Ver. 2.0
SEQ ID NO 3131

LENGTH: 7

TYPE: PRT

ORGANISM: Artificial Sequence
FEATURE:
OTHER INFORMATION: Description of Artificial Sequence: example ZFP
US-09-989-789-3131

Query Match 100.0%; Score 35; DB 9; Length 7;
Best Local Similarity 100.0%; Pred. No. 7e+05;
Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 DRSNLTR 7
DB 1 DRSNLTR 7

RESULT 22

US-09-989-789-3197
Sequence 3197, Application US/09989789
Patent No. US2002063379A1

GENERAL INFORMATION:
APPLICANT: LIU, Qiang
TITLE OF INVENTION: POSITION DEPENDENT RECOGNITION OF GNN NUCLEOTIDE
FILE REFERENCE: 8325-0011.20 / S11-US2

CURRENT APPLICATION NUMBER: US/09/989,789
CURRENT FILING DATE: 2002-03-25
NUMBER OF SEQ ID NOS: 4085
SOFTWARE: PatentIn Ver. 2.0
SEQ ID NO 3197

LENGTH: 7

TYPE: PRT

ORGANISM: Artificial Sequence
FEATURE:
OTHER INFORMATION: Description of Artificial Sequence: example ZFP
US-09-989-789-3197

Query Match 100.0%; Score 35; DB 9; Length 7;
Best Local Similarity 100.0%; Pred. No. 7e+05;
Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 DRSNLTR 7
DB 1 DRSNLTR 7

RESULT 23

US-09-989-789-3216
Sequence 3216, Application US/09989789
Patent No. US2002063379A1

GENERAL INFORMATION:
APPLICANT: LIU, Qiang
TITLE OF INVENTION: POSITION DEPENDENT RECOGNITION OF GNN NUCLEOTIDE
FILE REFERENCE: 8325-0011.20 / S11-US2

CURRENT APPLICATION NUMBER: US/09/989,789
CURRENT FILING DATE: 2002-03-25
NUMBER OF SEQ ID NOS: 4085
SOFTWARE: PatentIn Ver. 2.0

```

; SEQ ID NO 3216
; LENGTH: 7
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: example ZFP
US-09-989-789-3216

```

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Query Match
Best Local Similarity 100.0%; Score 35; DB 9; Length 7;
Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

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QY 1 DRSNLT 7
    |||||
Db 1 DRSNLT 7

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RESULT 24
US-09-989-789-3286
; Sequence 3286, Application US/09989789
; Patent No. US20020063379A1
; GENERAL INFORMATION:
; APPLICANT: LIU, Qiang
; TITLE OF INVENTION: POSITION DEPENDENT RECOGNITION OF GNN NUCLEOTIDE
; FILE REFERENCE: 8325-0011.20 / S11-US2
; CURRENT APPLICATION NUMBER: US/09/989,789
; CURRENT FILING DATE: 2002-03-25
; NUMBER OF SEQ ID NOS: 4085
; SOFTWARE: Patentin Ver. 2.0
; SEQ ID NO 3286
; LENGTH: 7
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: example ZFP
US-09-989-789-3286

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```

Query Match
Best Local Similarity 100.0%; Score 35; DB 9; Length 7;
Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

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QY 1 DRSNLT 7
    |||||
Db 1 DRSNLT 7

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```

RESULT 25
US-09-989-789-3287
; Sequence 3287, Application US/09989789
; Patent No. US20020063379A1
; GENERAL INFORMATION:
; APPLICANT: LIU, Qiang
; TITLE OF INVENTION: POSITION DEPENDENT RECOGNITION OF GNN NUCLEOTIDE
; FILE REFERENCE: 8325-0011.20 / S11-US2
; CURRENT APPLICATION NUMBER: US/09/989,789
; CURRENT FILING DATE: 2002-03-25
; NUMBER OF SEQ ID NOS: 4085
; SOFTWARE: Patentin Ver. 2.0
; SEQ ID NO 3287
; LENGTH: 7
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: example ZFP
US-09-989-789-3287

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```

Query Match
Best Local Similarity 100.0%; Score 35; DB 9; Length 7;
Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

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QY 1 DRSNLT 7

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Db 1 DRSNLT 7
    |||||

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RESULT 26
US-09-989-789-3293
; Sequence 3293, Application US/09989789
; Patent No. US20020063379A1
; GENERAL INFORMATION:
; APPLICANT: LIU, Qiang
; TITLE OF INVENTION: POSITION DEPENDENT RECOGNITION OF GNN NUCLEOTIDE
; FILE REFERENCE: 8325-0011.20 / S11-US2
; CURRENT APPLICATION NUMBER: US/09/989,789
; CURRENT FILING DATE: 2002-03-25
; NUMBER OF SEQ ID NOS: 4085
; SOFTWARE: Patentin Ver. 2.0
; SEQ ID NO 3293
; LENGTH: 7
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: example ZFP
US-09-989-789-3293

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Query Match
Best Local Similarity 100.0%; Score 35; DB 9; Length 7;
Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

```

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QY 1 DRSNLT 7
    |||||
Db 1 DRSNLT 7

```

```

RESULT 27
US-09-989-789-3294
; Sequence 3294, Application US/09989789
; Patent No. US20020063379A1
; GENERAL INFORMATION:
; APPLICANT: LIU, Qiang
; TITLE OF INVENTION: POSITION DEPENDENT RECOGNITION OF GNN NUCLEOTIDE
; FILE REFERENCE: 8325-0011.20 / S11-US2
; CURRENT APPLICATION NUMBER: US/09/989,789
; CURRENT FILING DATE: 2002-03-25
; NUMBER OF SEQ ID NOS: 4085
; SOFTWARE: Patentin Ver. 2.0
; SEQ ID NO 3294
; LENGTH: 7
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: example ZFP
US-09-989-789-3294

```

```

Query Match
Best Local Similarity 100.0%; Score 35; DB 9; Length 7;
Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

```

```

QY 1 DRSNLT 7
    |||||
Db 1 DRSNLT 7

```

```

RESULT 28
US-09-989-789-3417
; Sequence 3417, Application US/09989789
; Patent No. US20020063379A1
; GENERAL INFORMATION:
; APPLICANT: LIU, Qiang
; TITLE OF INVENTION: POSITION DEPENDENT RECOGNITION OF GNN NUCLEOTIDE
; FILE REFERENCE: 8325-0011.20 / S11-US2

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CURRENT APPLICATION NUMBER: US/09/989,789
CURRENT FILING DATE: 2002-03-25
NUMBER OF SEQ ID NOS: 4085
SOFTWARE: PatentIn Ver. 2.0
SEQ ID NO 3417
LENGTH: 7
TYPE: PRT
ORGANISM: Artificial Sequence
FEATURE:
OTHER INFORMATION: Description of Artificial Sequence: example ZFP
US-09-989-789-3417

Query Match 100.0%; Score 35; DB 9; Length 7;
Best Local Similarity 100.0%; Pred. No. 7e+05;
Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
QY 1 DRSNLT 7
DB 1 DRSNLT 7

RESULT 29
US-09-989-789-3419
Sequence 3419, Application US/09989789
Patent No. US20020063379A1
GENERAL INFORMATION:
APPLICANT: Liu, Qiang
TITLE OF INVENTION: POSITION DEPENDENT RECOGNITION OF GNN NUCLEOTIDE
FILE REFERENCE: 8325-0011.20 / S11-US2
CURRENT APPLICATION NUMBER: US/09/989,789
CURRENT FILING DATE: 2002-03-25
NUMBER OF SEQ ID NOS: 4085
SOFTWARE: PatentIn Ver. 2.0
SEQ ID NO 3419
LENGTH: 7
TYPE: PRT
ORGANISM: Artificial Sequence
FEATURE:
OTHER INFORMATION: Description of Artificial Sequence: example ZFP
US-09-989-789-3419

Query Match 100.0%; Score 35; DB 9; Length 7;
Best Local Similarity 100.0%; Pred. No. 7e+05;
Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
QY 1 DRSNLT 7
DB 1 DRSNLT 7

RESULT 30
US-09-989-789-3535
Sequence 3535, Application US/09989789
Patent No. US20020063379A1
GENERAL INFORMATION:
APPLICANT: Liu, Qiang
TITLE OF INVENTION: POSITION DEPENDENT RECOGNITION OF GNN NUCLEOTIDE
FILE REFERENCE: 8325-0011.20 / S11-US2
CURRENT APPLICATION NUMBER: US/09/989,789
CURRENT FILING DATE: 2002-03-25
NUMBER OF SEQ ID NOS: 4085
SOFTWARE: PatentIn Ver. 2.0
SEQ ID NO 3535
LENGTH: 7
TYPE: PRT
ORGANISM: Artificial Sequence
FEATURE:
OTHER INFORMATION: Description of Artificial Sequence: example ZFP
US-09-989-789-3535

Query Match 100.0%; Score 35; DB 9; Length 7;

Best Local Similarity 100.0%; Pred. No. 7e+05;
Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
QY 1 DRSNLT 7
DB 1 DRSNLT 7

RESULT 31
US-09-989-789-3572
Sequence 3572, Application US/09989789
Patent No. US20020063379A1
GENERAL INFORMATION:
APPLICANT: Liu, Qiang
TITLE OF INVENTION: POSITION DEPENDENT RECOGNITION OF GNN NUCLEOTIDE
FILE REFERENCE: 8325-0011.20 / S11-US2
CURRENT APPLICATION NUMBER: US/09/989,789
CURRENT FILING DATE: 2002-03-25
NUMBER OF SEQ ID NOS: 4085
SOFTWARE: PatentIn Ver. 2.0
SEQ ID NO 3572
LENGTH: 7
TYPE: PRT
ORGANISM: Artificial Sequence
FEATURE:
OTHER INFORMATION: Description of Artificial Sequence: example ZFP
US-09-989-789-3572

Query Match 100.0%; Score 35; DB 9; Length 7;
Best Local Similarity 100.0%; Pred. No. 7e+05;
Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
QY 1 DRSNLT 7
DB 1 DRSNLT 7

RESULT 32
US-09-989-789-3598
Sequence 3598, Application US/09989789
Patent No. US20020063379A1
GENERAL INFORMATION:
APPLICANT: Liu, Qiang
TITLE OF INVENTION: POSITION DEPENDENT RECOGNITION OF GNN NUCLEOTIDE
FILE REFERENCE: 8325-0011.20 / S11-US2
CURRENT APPLICATION NUMBER: US/09/989,789
CURRENT FILING DATE: 2002-03-25
NUMBER OF SEQ ID NOS: 4085
SOFTWARE: PatentIn Ver. 2.0
SEQ ID NO 3598
LENGTH: 7
TYPE: PRT
ORGANISM: Artificial Sequence
FEATURE:
OTHER INFORMATION: Description of Artificial Sequence: example ZFP
US-09-989-789-3598

Query Match 100.0%; Score 35; DB 9; Length 7;
Best Local Similarity 100.0%; Pred. No. 7e+05;
Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
QY 1 DRSNLT 7
DB 1 DRSNLT 7

RESULT 33
US-09-989-789-3600
Sequence 3600, Application US/09989789
Patent No. US20020063379A1
GENERAL INFORMATION:

```

; APPLICANT: LIU, Qiang
; TITLE OF INVENTION: POSITION DEPENDENT RECOGNITION OF GNN NUCLEOTIDE
; FILE REFERENCE: 8325-0011.20 / S11-US2
; CURRENT APPLICATION NUMBER: US/09/989,789
; CURRENT FILING DATE: 2002-03-25
; NUMBER OF SEQ ID NOS: 4085
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 3600
; LENGTH: 7
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: example ZFP
US-09-989-789-3600

Query Match
Best Local Similarity 100.0%; Score 35; DB 9; Length 7;
Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 DRSNLTR 7
DB 1 DRSNLTR 7

RESULT 34
US-09-989-789-3666
; Sequence 3666, Application US/09989789
; Patent No. US20020063379A1
; GENERAL INFORMATION:
; APPLICANT: LIU, Qiang
; TITLE OF INVENTION: POSITION DEPENDENT RECOGNITION OF GNN NUCLEOTIDE
; FILE REFERENCE: 8325-0011.20 / S11-US2
; CURRENT APPLICATION NUMBER: US/09/989,789
; CURRENT FILING DATE: 2002-03-25
; NUMBER OF SEQ ID NOS: 4085
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 3666
; LENGTH: 7
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: example ZFP
US-09-989-789-3666

Query Match
Best Local Similarity 100.0%; Score 35; DB 9; Length 7;
Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 DRSNLTR 7
DB 1 DRSNLTR 7

RESULT 35
US-09-989-789-3898
; Sequence 3898, Application US/09989789
; Patent No. US20020063379A1
; GENERAL INFORMATION:
; APPLICANT: LIU, Qiang
; TITLE OF INVENTION: POSITION DEPENDENT RECOGNITION OF GNN NUCLEOTIDE
; FILE REFERENCE: 8325-0011.20 / S11-US2
; CURRENT APPLICATION NUMBER: US/09/989,789
; CURRENT FILING DATE: 2002-03-25
; NUMBER OF SEQ ID NOS: 4085
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 3898
; LENGTH: 7
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:

; OTHER INFORMATION: Description of Artificial Sequence: example ZFP
US-09-989-789-3898

Query Match
Best Local Similarity 100.0%; Score 35; DB 9; Length 7;
Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 DRSNLTR 7
DB 1 DRSNLTR 7

RESULT 36
US-09-989-789-3899
; Sequence 3899, Application US/09989789
; Patent No. US20020063379A1
; GENERAL INFORMATION:
; APPLICANT: LIU, Qiang
; TITLE OF INVENTION: POSITION DEPENDENT RECOGNITION OF GNN NUCLEOTIDE
; FILE REFERENCE: 8325-0011.20 / S11-US2
; CURRENT APPLICATION NUMBER: US/09/989,789
; CURRENT FILING DATE: 2002-03-25
; NUMBER OF SEQ ID NOS: 4085
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 3899
; LENGTH: 7
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: example ZFP
US-09-989-789-3899

Query Match
Best Local Similarity 100.0%; Score 35; DB 9; Length 7;
Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 DRSNLTR 7
DB 1 DRSNLTR 7

RESULT 37
US-09-989-789-3976
; Sequence 3976, Application US/09989789
; Patent No. US20020063379A1
; GENERAL INFORMATION:
; APPLICANT: LIU, Qiang
; TITLE OF INVENTION: POSITION DEPENDENT RECOGNITION OF GNN NUCLEOTIDE
; FILE REFERENCE: 8325-0011.20 / S11-US2
; CURRENT APPLICATION NUMBER: US/09/989,789
; CURRENT FILING DATE: 2002-03-25
; NUMBER OF SEQ ID NOS: 4085
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 3976
; LENGTH: 7
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: example ZFP
US-09-989-789-3976

Query Match
Best Local Similarity 100.0%; Score 35; DB 9; Length 7;
Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 DRSNLTR 7
DB 1 DRSNLTR 7

RESULT 38
```

US-09-989-789-3979
 ; Sequence 3979, Application US/09989789
 ; Patent No. US2002063379A1
 ; GENERAL INFORMATION:
 ; APPLICANT: Liu, Qiang
 ; TITLE OF INVENTION: POSITION DEPENDENT RECOGNITION OF GNN NUCLEOTIDE
 ; FILE OF INVENTION: TRIPLETS BY ZINC FINGERS
 ; FILE REFERENCE: 8325-0011.20 / S11-US2
 ; CURRENT APPLICATION NUMBER: US/09/989,789
 ; CURRENT FILING DATE: 2002-03-25
 ; NUMBER OF SEQ ID NOS: 4085
 ; SOFTWARE: PatentIn Ver. 2.0
 ; SEQ ID NO 3979
 ; LENGTH: 7
 ; TYPE: PRT
 ; ORGANISM: Artificial Sequence
 ; FEATURE:
 ; OTHER INFORMATION: Description of Artificial Sequence: example ZFP
 ; US-09-989-789-3979

Query Match 100.0%; Score 35; DB 9; Length 7;
 Best Local Similarity 100.0%; Pred. No. 7e+05;
 Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 DRSNLTTR 7
 |||||
 Db 1 DRSNLTTR 7

RESULT 39
 US-09-731-558-20
 ; Sequence 20, Application US/09731558
 ; Patent No. US20020146691A1
 ; GENERAL INFORMATION:
 ; APPLICANT: Casey, Christopher
 ; APPLICANT: Liu, Qiang
 ; APPLICANT: Rebar, Edward J.
 ; APPLICANT: Sangamo Biosciences, Inc.
 ; TITLE OF INVENTION: Methods of Using Randomized Libraries of Zinc Finger
 ; FILE REFERENCE: 019496-003210US
 ; CURRENT APPLICATION NUMBER: US/09/731,558
 ; CURRENT FILING DATE: 2000-12-06
 ; PRIOR APPLICATION NUMBER: US 09/456,100
 ; PRIOR FILING DATE: 1999-12-06
 ; NUMBER OF SEQ ID NOS: 24
 ; SOFTWARE: PatentIn Ver. 2.1
 ; SEQ ID NO 20
 ; LENGTH: 7
 ; TYPE: PRT
 ; ORGANISM: Artificial Sequence
 ; FEATURE:
 ; OTHER INFORMATION: Description of Artificial Sequence: SB59
 ; OTHER INFORMATION: recognition helix
 ; US-09-731-558-20

Query Match 100.0%; Score 35; DB 10; Length 7;
 Best Local Similarity 100.0%; Pred. No. 7e+05;
 Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 DRSNLTTR 7
 |||||
 Db 1 DRSNLTTR 7

RESULT 40
 US-09-846-033B-36
 ; Sequence 36, Application US/09846033B
 ; Publication No. US2003004404A1
 ; GENERAL INFORMATION:
 ; APPLICANT: Rebar, Edward
 ; APPLICANT: Jamieson, Andrew
 ; APPLICANT: Liu, Qiang

APPLICANT: Liu, Pei-Qi
 ; APPLICANT: Wolfe, Alan
 ; APPLICANT: Eisenberg, Stephen P.
 ; APPLICANT: Jarvis, Eric
 ; APPLICANT: Sangamo Biosciences, Inc.
 ; TITLE OF INVENTION: Regulation of Angiogenesis With Zinc
 ; FILE OF INVENTION: Finger Proteins
 ; FILE REFERENCE: 019496-005820US
 ; CURRENT APPLICATION NUMBER: US/09/846,033B
 ; CURRENT FILING DATE: 2001-04-30
 ; PRIOR APPLICATION NUMBER: US 09/733,604
 ; PRIOR FILING DATE: 2000-12-07
 ; PRIOR APPLICATION NUMBER: US 09/736,083
 ; PRIOR FILING DATE: 2000-12-12
 ; NUMBER OF SEQ ID NOS: 252
 ; SOFTWARE: FastSeq for Windows Version 3.0
 ; SEQ ID NO 36
 ; LENGTH: 7
 ; TYPE: PRT
 ; ORGANISM: Artificial Sequence
 ; FEATURE:
 ; OTHER INFORMATION: finger
 ; US-09-846-033B-36

Query Match 100.0%; Score 35; DB 11; Length 7;
 Best Local Similarity 100.0%; Pred. No. 7e+05;
 Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 DRSNLTTR 7
 |||||
 Db 1 DRSNLTTR 7

RESULT 41
 US-09-846-033B-55
 ; Sequence 55, Application US/09846033B
 ; Publication No. US2003004404A1
 ; GENERAL INFORMATION:
 ; APPLICANT: Rebar, Edward
 ; APPLICANT: Jamieson, Andrew
 ; APPLICANT: Liu, Qiang
 ; APPLICANT: Wolfe, Alan
 ; APPLICANT: Eisenberg, Stephen P.
 ; APPLICANT: Jarvis, Eric
 ; APPLICANT: Sangamo Biosciences, Inc.
 ; TITLE OF INVENTION: Regulation of Angiogenesis With Zinc
 ; FILE REFERENCE: 019496-005820US
 ; CURRENT APPLICATION NUMBER: US/09/846,033B
 ; CURRENT FILING DATE: 2001-04-30
 ; PRIOR APPLICATION NUMBER: US 09/733,604
 ; PRIOR FILING DATE: 2000-12-07
 ; PRIOR APPLICATION NUMBER: US 09/736,083
 ; PRIOR FILING DATE: 2000-12-12
 ; NUMBER OF SEQ ID NOS: 252
 ; SOFTWARE: FastSeq for Windows Version 3.0
 ; SEQ ID NO 55
 ; LENGTH: 7
 ; TYPE: PRT
 ; ORGANISM: Artificial Sequence
 ; FEATURE:
 ; OTHER INFORMATION: finger
 ; US-09-846-033B-55

Query Match 100.0%; Score 35; DB 11; Length 7;
 Best Local Similarity 100.0%; Pred. No. 7e+05;
 Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 DRSNLTTR 7
 |||||
 Db 1 DRSNLTTR 7

```
RESULT 42
US-09-846-033B-56
; Sequence 56, Application US/09846033B
; Publication No. US20030044404A1
; GENERAL INFORMATION:
; APPLICANT: Rebar, Edward
; APPLICANT: Jamieson, Andrew
; APPLICANT: Liu, Qiang
; APPLICANT: Liu, Pei-Qi
; APPLICANT: Wolfe, Alan
; APPLICANT: Eisenberg, Stephen P.
; APPLICANT: Jarvis, Eric
; APPLICANT: Sangamo Biosciences, Inc.
; TITLE OF INVENTION: Regulation of Angiogenesis With Zinc
; FILE REFERENCE: 019496-005820US
; CURRENT FILING DATE: 2001-04-30
; PRIOR FILING DATE: 2000-12-07
; PRIOR APPLICATION NUMBER: US 09/733,604
; PRIOR FILING DATE: 2000-12-12
; PRIOR APPLICATION NUMBER: US 09/736,083
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 56
; LENGTH: 7
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: finger
US-09-846-033B-56

Query Match          100.0%; Score 35; DB 11; Length 7;
Best Local Similarity 100.0%; Pred. No. 7e+05;
Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY      1 DRSNLTR 7
        |||||
Db       1 DRSNLTR 7

RESULT 43
US-09-846-033B-59
; Sequence 59, Application US/09846033B
; Publication No. US20030044404A1
; GENERAL INFORMATION:
; APPLICANT: Rebar, Edward
; APPLICANT: Jamieson, Andrew
; APPLICANT: Liu, Qiang
; APPLICANT: Liu, Pei-Qi
; APPLICANT: Wolfe, Alan
; APPLICANT: Eisenberg, Stephen P.
; APPLICANT: Jarvis, Eric
; APPLICANT: Sangamo Biosciences, Inc.
; TITLE OF INVENTION: Regulation of Angiogenesis With Zinc
; FILE REFERENCE: 019496-005820US
; CURRENT FILING DATE: 2001-04-30
; PRIOR FILING DATE: 2000-12-07
; PRIOR APPLICATION NUMBER: US 09/733,604
; PRIOR FILING DATE: 2000-12-12
; PRIOR APPLICATION NUMBER: US 09/736,083
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 59
; LENGTH: 7
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: finger
US-09-846-033B-59
```

```
Query Match          100.0%; Score 35; DB 11; Length 7;
Best Local Similarity 100.0%; Pred. No. 7e+05;
Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY      1 DRSNLTR 7
        |||||
Db       1 DRSNLTR 7

RESULT 44
US-09-846-033B-67
; Sequence 67, Application US/09846033B
; Publication No. US20030044404A1
; GENERAL INFORMATION:
; APPLICANT: Rebar, Edward
; APPLICANT: Jamieson, Andrew
; APPLICANT: Liu, Qiang
; APPLICANT: Liu, Pei-Qi
; APPLICANT: Wolfe, Alan
; APPLICANT: Eisenberg, Stephen P.
; APPLICANT: Jarvis, Eric
; APPLICANT: Sangamo Biosciences, Inc.
; TITLE OF INVENTION: Regulation of Angiogenesis With Zinc
; FILE REFERENCE: 019496-005820US
; CURRENT FILING DATE: 2001-04-30
; PRIOR FILING DATE: 2000-12-07
; PRIOR APPLICATION NUMBER: US 09/733,604
; PRIOR FILING DATE: 2000-12-12
; PRIOR APPLICATION NUMBER: US 09/736,083
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 67
; LENGTH: 7
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: finger
US-09-846-033B-67

Query Match          100.0%; Score 35; DB 11; Length 7;
Best Local Similarity 100.0%; Pred. No. 7e+05;
Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY      1 DRSNLTR 7
        |||||
Db       1 DRSNLTR 7

RESULT 45
US-09-846-033B-134
; Sequence 134, Application US/09846033B
; Publication No. US20030044404A1
; GENERAL INFORMATION:
; APPLICANT: Rebar, Edward
; APPLICANT: Jamieson, Andrew
; APPLICANT: Liu, Qiang
; APPLICANT: Liu, Pei-Qi
; APPLICANT: Wolfe, Alan
; APPLICANT: Eisenberg, Stephen P.
; APPLICANT: Jarvis, Eric
; APPLICANT: Sangamo Biosciences, Inc.
; TITLE OF INVENTION: Regulation of Angiogenesis With Zinc
; FILE REFERENCE: 019496-005820US
; CURRENT FILING DATE: 2001-04-30
; PRIOR FILING DATE: 2000-12-07
; PRIOR APPLICATION NUMBER: US 09/733,604
; PRIOR FILING DATE: 2000-12-12
; PRIOR APPLICATION NUMBER: US 09/736,083
; PRIOR FILING DATE: 2000-12-12
```


NUMBER OF SEQ ID NOS: 252
SOFTWARE: FastSeq for Windows Version 3.0
SEQ ID NO 134
LENGTH: 7
TYPE: PRT
ORGANISM: Artificial Sequence
FEATURE:
OTHER INFORMATION: finger
US-09-846-033B-134

Query Match
Best Local Similarity 100.0%; Score 35; DB 11; Length 7;
Best Local Similarity 100.0%; Pred. No. 7e+05;
Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 DRSNLTR 7
DB 1 DRSNLTR 7

RESULT 46
US-09-846-033B-167
Sequence 167, Application US/09846033B
Publication No. US20030044404A1
GENERAL INFORMATION:
APPLICANT: Rebar, Edward
APPLICANT: Jamieson, Andrew
APPLICANT: Liu, Qiang
APPLICANT: Liu, Pei-Qi
APPLICANT: Wolfe, Alan
APPLICANT: Eisenberg, Stephen P.
APPLICANT: Jarvis, Eric
APPLICANT: Sangamo Biosciences, Inc.
TITLE OF INVENTION: Regulation of Angiogenesis With Zinc
TITLE OF INVENTION: Finger Proteins
FILE REFERENCE: 019496-005820US
CURRENT APPLICATION NUMBER: US/09/846,033B
CURRENT FILING DATE: 2001-04-30
PRIOR APPLICATION NUMBER: US 09/733,604
PRIOR FILING DATE: 2000-12-07
PRIOR APPLICATION NUMBER: US 09/736,083
PRIOR FILING DATE: 2000-12-12
NUMBER OF SEQ ID NOS: 252
SOFTWARE: FastSeq for Windows Version 3.0
SEQ ID NO 167
LENGTH: 7
TYPE: PRT
ORGANISM: Artificial Sequence
FEATURE:
OTHER INFORMATION: finger
US-09-846-033B-167

Query Match
Best Local Similarity 100.0%; Score 35; DB 11; Length 7;
Best Local Similarity 100.0%; Pred. No. 7e+05;
Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 DRSNLTR 7
DB 1 DRSNLTR 7

RESULT 47
US-09-846-033B-170
Sequence 170, Application US/09846033B
Publication No. US20030044404A1
GENERAL INFORMATION:
APPLICANT: Rebar, Edward
APPLICANT: Jamieson, Andrew
APPLICANT: Liu, Qiang
APPLICANT: Liu, Pei-Qi
APPLICANT: Wolfe, Alan
APPLICANT: Eisenberg, Stephen P.
APPLICANT: Jarvis, Eric
APPLICANT: Sangamo Biosciences, Inc.

TITLE OF INVENTION: Regulation of Angiogenesis With Zinc
TITLE OF INVENTION: Finger Proteins
FILE REFERENCE: 019496-005820US
CURRENT APPLICATION NUMBER: US/09/846,033B
CURRENT FILING DATE: 2001-04-30
PRIOR APPLICATION NUMBER: US 09/733,604
PRIOR FILING DATE: 2000-12-07
PRIOR APPLICATION NUMBER: US 09/736,083
PRIOR FILING DATE: 2000-12-12
NUMBER OF SEQ ID NOS: 252
SOFTWARE: FastSeq for Windows Version 3.0
SEQ ID NO 170
LENGTH: 7
TYPE: PRT
ORGANISM: Artificial Sequence
FEATURE:
OTHER INFORMATION: finger
US-09-846-033B-170

Query Match
Best Local Similarity 100.0%; Score 35; DB 11; Length 7;
Best Local Similarity 100.0%; Pred. No. 7e+05;
Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 DRSNLTR 7
DB 1 DRSNLTR 7

RESULT 48
US-09-846-033B-196
Sequence 196, Application US/09846033B
Publication No. US20030044404A1
GENERAL INFORMATION:
APPLICANT: Rebar, Edward
APPLICANT: Jamieson, Andrew
APPLICANT: Liu, Qiang
APPLICANT: Liu, Pei-Qi
APPLICANT: Wolfe, Alan
APPLICANT: Eisenberg, Stephen P.
APPLICANT: Jarvis, Eric
APPLICANT: Sangamo Biosciences, Inc.
TITLE OF INVENTION: Regulation of Angiogenesis With Zinc
TITLE OF INVENTION: Finger Proteins
FILE REFERENCE: 019496-005820US
CURRENT APPLICATION NUMBER: US/09/846,033B
CURRENT FILING DATE: 2001-04-30
PRIOR APPLICATION NUMBER: US 09/733,604
PRIOR FILING DATE: 2000-12-07
PRIOR APPLICATION NUMBER: US 09/736,083
PRIOR FILING DATE: 2000-12-12
NUMBER OF SEQ ID NOS: 252
SOFTWARE: FastSeq for Windows Version 3.0
SEQ ID NO 196
LENGTH: 7
TYPE: PRT
ORGANISM: Artificial Sequence
FEATURE:
OTHER INFORMATION: recognition helix
US-09-846-033B-196

Query Match
Best Local Similarity 100.0%; Score 35; DB 11; Length 7;
Best Local Similarity 100.0%; Pred. No. 7e+05;
Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 DRSNLTR 7
DB 1 DRSNLTR 7

RESULT 49
US-09-846-033B-198
Sequence 198, Application US/09846033B
Publication No. US20030044404A1

```

; GENERAL INFORMATION:
; APPLICANT: Rebar, Edward
; APPLICANT: Jamieson, Andrew
; APPLICANT: Liu, Qiang
; APPLICANT: Liu, Pei-Qi
; APPLICANT: Wolfe, Alan
; APPLICANT: Eisenberg, Stephen P.
; APPLICANT: Jarvis, Eric
; APPLICANT: Sangamo Biosciences, Inc.
; TITLE OF INVENTION: Regulation of Angiogenesis With Zinc
; TITLE OF INVENTION: Finger Proteins
; FILE REFERENCE: 019496-005820US
; CURRENT APPLICATION NUMBER: US/09/846,033B
; PRIOR FILING DATE: 2001-04-30
; PRIOR APPLICATION NUMBER: US 09/733,604
; PRIOR FILING DATE: 2000-12-07
; PRIOR APPLICATION NUMBER: US 09/736,083
; PRIOR FILING DATE: 2000-12-12
; NUMBER OF SEQ ID NOS: 252
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 198
; LENGTH: 7
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: recognition helix
; US-09-846-033B-198

Query Match          100.0%; Score 35; DB 11; Length 7;
Best Local Similarity 100.0%; Pred. No. 7e+05;
Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 DRSNLTR 7
   |||||
   1 DRSNLTR 7
   |||||

Db 1 DRSNLTR 7

RESULT 50
US-09-990-186-395
; Sequence 395, Application US/09990186
; Publication No. US20030068675A1
; GENERAL INFORMATION:
; APPLICANT: Liu, Qiang
; TITLE OF INVENTION: POSITION DEPENDENT RECOGNITION OF GNN NUCLEOTIDE
; TITLE OF INVENTION: TRIPLETS BY ZINC FINGERS
; FILE REFERENCE: 8325-0011.21 / S11-US3
; CURRENT APPLICATION NUMBER: US/09/990,186
; CURRENT FILING DATE: 2001-11-20
; NUMBER OF SEQ ID NOS: 4085
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 395
; LENGTH: 7
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: example ZFP
; US-09-990-186-395

Query Match          100.0%; Score 35; DB 11; Length 7;
Best Local Similarity 100.0%; Pred. No. 7e+05;
Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 DRSNLTR 7
   |||||
   1 DRSNLTR 7
   |||||

Db 1 DRSNLTR 7

RESULT 51
US-09-990-186-1376
; Sequence 1376, Application US/09990186
; Publication No. US20030068675A1
; GENERAL INFORMATION:
; APPLICANT: Liu, Qiang
```

```

; TITLE OF INVENTION: POSITION DEPENDENT RECOGNITION OF GNN NUCLEOTIDE
; TITLE OF INVENTION: TRIPLETS BY ZINC FINGERS
; FILE REFERENCE: 8325-0011.21 / S11-US3
; CURRENT APPLICATION NUMBER: US/09/990,186
; CURRENT FILING DATE: 2001-11-20
; NUMBER OF SEQ ID NOS: 4085
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 1376
; LENGTH: 7
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: example ZFP
; US-09-990-186-1376

Query Match          100.0%; Score 35; DB 11; Length 7;
Best Local Similarity 100.0%; Pred. No. 7e+05;
Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 DRSNLTR 7
   |||||
   1 DRSNLTR 7
   |||||

Db 1 DRSNLTR 7

RESULT 52
US-09-990-186-1454
; Sequence 1454, Application US/09990186
; Publication No. US20030068675A1
; GENERAL INFORMATION:
; APPLICANT: Liu, Qiang
; TITLE OF INVENTION: POSITION DEPENDENT RECOGNITION OF GNN NUCLEOTIDE
; TITLE OF INVENTION: TRIPLETS BY ZINC FINGERS
; FILE REFERENCE: 8325-0011.21 / S11-US3
; CURRENT APPLICATION NUMBER: US/09/990,186
; CURRENT FILING DATE: 2001-11-20
; NUMBER OF SEQ ID NOS: 4085
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 1454
; LENGTH: 7
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: example ZFP
; US-09-990-186-1454

Query Match          100.0%; Score 35; DB 11; Length 7;
Best Local Similarity 100.0%; Pred. No. 7e+05;
Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 DRSNLTR 7
   |||||
   1 DRSNLTR 7
   |||||

Db 1 DRSNLTR 7

RESULT 53
US-09-990-186-1464
; Sequence 1464, Application US/09990186
; Publication No. US20030068675A1
; GENERAL INFORMATION:
; APPLICANT: Liu, Qiang
; TITLE OF INVENTION: POSITION DEPENDENT RECOGNITION OF GNN NUCLEOTIDE
; TITLE OF INVENTION: TRIPLETS BY ZINC FINGERS
; FILE REFERENCE: 8325-0011.21 / S11-US3
; CURRENT APPLICATION NUMBER: US/09/990,186
; CURRENT FILING DATE: 2001-11-20
; NUMBER OF SEQ ID NOS: 4085
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 1464
; LENGTH: 7
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: example ZFP
```

US-09-990-186-1464

Query Match 100.0%; Score 35; DB 11; Length 7;
Best Local Similarity 100.0%; Pred. No. 7e+05;
Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 DRSNLTTR 7
|||
Db 1 DRSNLTTR 7

RESULT 54

US-09-990-186-1525
; Sequence 1525, Application US/09990186
; Publication No. US20030068675A1
; GENERAL INFORMATION:

APPLICANT: LIU, Qiang
TITLE OF INVENTION: POSITION DEPENDENT RECOGNITION OF GNN NUCLEOTIDE
FILE REFERENCE: 8325-0011.21 / S11-US3
CURRENT APPLICATION NUMBER: US/09/990,186
CURRENT FILING DATE: 2001-11-20
NUMBER OF SEQ ID NOS: 4085
SOFTWARE: PatentIn Ver. 2.0
SEQ ID NO 1525
LENGTH: 7
TYPE: PRT
ORGANISM: Artificial Sequence
FEATURE:
OTHER INFORMATION: Description of Artificial Sequence: example ZFP
US-09-990-186-1525

Query Match 100.0%; Score 35; DB 11; Length 7;
Best Local Similarity 100.0%; Pred. No. 7e+05;
Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 DRSNLTTR 7
|||
Db 1 DRSNLTTR 7

RESULT 55

US-09-990-186-1553
; Sequence 1553, Application US/09990186
; Publication No. US20030068675A1
; GENERAL INFORMATION:

APPLICANT: LIU, Qiang
TITLE OF INVENTION: POSITION DEPENDENT RECOGNITION OF GNN NUCLEOTIDE
FILE REFERENCE: 8325-0011.21 / S11-US3
CURRENT APPLICATION NUMBER: US/09/990,186
CURRENT FILING DATE: 2001-11-20
NUMBER OF SEQ ID NOS: 4085
SOFTWARE: PatentIn Ver. 2.0
SEQ ID NO 1553
LENGTH: 7
TYPE: PRT
ORGANISM: Artificial Sequence
FEATURE:
OTHER INFORMATION: Description of Artificial Sequence: example ZFP
US-09-990-186-1553

Query Match 100.0%; Score 35; DB 11; Length 7;
Best Local Similarity 100.0%; Pred. No. 7e+05;
Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 DRSNLTTR 7
|||
Db 1 DRSNLTTR 7

RESULT 56
US-09-990-186-1559

Sequence 1559, Application US/09990186
Publication No. US20030068675A1
GENERAL INFORMATION:

APPLICANT: LIU, Qiang
TITLE OF INVENTION: POSITION DEPENDENT RECOGNITION OF GNN NUCLEOTIDE
FILE REFERENCE: 8325-0011.21 / S11-US3
CURRENT APPLICATION NUMBER: US/09/990,186
CURRENT FILING DATE: 2001-11-20
NUMBER OF SEQ ID NOS: 4085
SOFTWARE: PatentIn Ver. 2.0
SEQ ID NO 1559
LENGTH: 7
TYPE: PRT
ORGANISM: Artificial Sequence
FEATURE:
OTHER INFORMATION: Description of Artificial Sequence: example ZFP
US-09-990-186-1559

Query Match 100.0%; Score 35; DB 11; Length 7;
Best Local Similarity 100.0%; Pred. No. 7e+05;
Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 DRSNLTTR 7
|||
Db 1 DRSNLTTR 7

RESULT 57

US-09-990-186-1564
; Sequence 1564, Application US/09990186
; Publication No. US20030068675A1
; GENERAL INFORMATION:

APPLICANT: LIU, Qiang
TITLE OF INVENTION: POSITION DEPENDENT RECOGNITION OF GNN NUCLEOTIDE
FILE REFERENCE: 8325-0011.21 / S11-US3
CURRENT APPLICATION NUMBER: US/09/990,186
CURRENT FILING DATE: 2001-11-20
NUMBER OF SEQ ID NOS: 4085
SOFTWARE: PatentIn Ver. 2.0
SEQ ID NO 1564
LENGTH: 7
TYPE: PRT
ORGANISM: Artificial Sequence
FEATURE:
OTHER INFORMATION: Description of Artificial Sequence: example ZFP
US-09-990-186-1564

Query Match 100.0%; Score 35; DB 11; Length 7;
Best Local Similarity 100.0%; Pred. No. 7e+05;
Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 DRSNLTTR 7
|||
Db 1 DRSNLTTR 7

RESULT 58

US-09-990-186-1577
; Sequence 1577, Application US/09990186
; Publication No. US20030068675A1
; GENERAL INFORMATION:

APPLICANT: LIU, Qiang
TITLE OF INVENTION: POSITION DEPENDENT RECOGNITION OF GNN NUCLEOTIDE
FILE REFERENCE: 8325-0011.21 / S11-US3
CURRENT APPLICATION NUMBER: US/09/990,186
CURRENT FILING DATE: 2001-11-20
NUMBER OF SEQ ID NOS: 4085
SOFTWARE: PatentIn Ver. 2.0
SEQ ID NO 1577
LENGTH: 7

```

; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: example ZFP
US-09-990-186-1577

Query Match
Best Local Similarity 100.0%; Score 35; DB 11; Length 7;
Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 DRSNLT 7
Db 1 DRSNLT 7

RESULT 59
US-09-990-186-1899
; Sequence 1899, Application US/09990186
; Publication No. US20030068675A1
; GENERAL INFORMATION:
; APPLICANT: Liu, Qiang
; TITLE OF INVENTION: POSITION DEPENDENT RECOGNITION OF GNN NUCLEOTIDE
; FILE REFERENCE: 8325-0011.21 / S11-US3
; CURRENT FILING DATE: 2001-11-20
; NUMBER OF SEQ ID NOS: 4085
; SOFTWARE: Patentln Ver. 2.0
; SEQ ID NO 1899
; LENGTH: 7
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: example ZFP
US-09-990-186-1899

Query Match
Best Local Similarity 100.0%; Score 35; DB 11; Length 7;
Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 DRSNLT 7
Db 1 DRSNLT 7

RESULT 60
US-09-990-186-2668
; Sequence 2668, Application US/09990186
; Publication No. US20030068675A1
; GENERAL INFORMATION:
; APPLICANT: Liu, Qiang
; TITLE OF INVENTION: POSITION DEPENDENT RECOGNITION OF GNN NUCLEOTIDE
; FILE REFERENCE: 8325-0011.21 / S11-US3
; CURRENT FILING DATE: 2001-11-20
; NUMBER OF SEQ ID NOS: 4085
; SOFTWARE: Patentln Ver. 2.0
; SEQ ID NO 2668
; LENGTH: 7
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: example ZFP
US-09-990-186-2668

Query Match
Best Local Similarity 100.0%; Score 35; DB 11; Length 7;
Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 DRSNLT 7
Db 1 DRSNLT 7

```

```

RESULT 61
US-09-990-186-2705
; Sequence 2705, Application US/09990186
; Publication No. US20030068675A1
; GENERAL INFORMATION:
; APPLICANT: Liu, Qiang
; TITLE OF INVENTION: POSITION DEPENDENT RECOGNITION OF GNN NUCLEOTIDE
; FILE REFERENCE: 8325-0011.21 / S11-US3
; CURRENT FILING DATE: 2001-11-20
; NUMBER OF SEQ ID NOS: 4085
; SOFTWARE: Patentln Ver. 2.0
; SEQ ID NO 2705
; LENGTH: 7
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: example ZFP
US-09-990-186-2705

Query Match
Best Local Similarity 100.0%; Score 35; DB 11; Length 7;
Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 DRSNLT 7
Db 1 DRSNLT 7

RESULT 62
US-09-990-186-2737
; Sequence 2737, Application US/09990186
; Publication No. US20030068675A1
; GENERAL INFORMATION:
; APPLICANT: Liu, Qiang
; TITLE OF INVENTION: POSITION DEPENDENT RECOGNITION OF GNN NUCLEOTIDE
; FILE REFERENCE: 8325-0011.21 / S11-US3
; CURRENT FILING DATE: 2001-11-20
; NUMBER OF SEQ ID NOS: 4085
; SOFTWARE: Patentln Ver. 2.0
; SEQ ID NO 2737
; LENGTH: 7
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: example ZFP
US-09-990-186-2737

Query Match
Best Local Similarity 100.0%; Score 35; DB 11; Length 7;
Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 DRSNLT 7
Db 1 DRSNLT 7

RESULT 63
US-09-990-186-2791
; Sequence 2791, Application US/09990186
; Publication No. US20030068675A1
; GENERAL INFORMATION:
; APPLICANT: Liu, Qiang
; TITLE OF INVENTION: POSITION DEPENDENT RECOGNITION OF GNN NUCLEOTIDE
; FILE REFERENCE: 8325-0011.21 / S11-US3
; CURRENT FILING DATE: 2001-11-20
; NUMBER OF SEQ ID NOS: 4085
; SOFTWARE: Patentln Ver. 2.0
; SEQ ID NO 2791
; LENGTH: 7
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: example ZFP
US-09-990-186-2791

Query Match
Best Local Similarity 100.0%; Score 35; DB 11; Length 7;
Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 DRSNLT 7
Db 1 DRSNLT 7

```

```
/ NUMBER OF SEQ ID NOS: 4085
/ SOFTWARE: Patentin Ver. 2.0
/ SEQ ID NO 2791
/ LENGTH: 7
/ TYPE: PRT
/ ORGANISM: Artificial Sequence
/ FEATURE:
/ OTHER INFORMATION: Description of Artificial Sequence: example ZFP
US-09-990-186-2791

Query Match
Best Local Similarity 100.0%; Score 35; DB 11; Length 7;
Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 DRSNLTR 7
DB 1 DRSNLTR 7

RESULT 64
US-09-990-186-2792
/ Sequence 2792, Application US/09990186
/ Publication No. US20030068675A1
/ GENERAL INFORMATION:
/ APPLICANT: LIU, Qiang
/ TITLE OF INVENTION: POSITION DEPENDENT RECOGNITION OF GNN NUCLEOTIDE
/ FILE REFERENCE: 8325-0011.21 / S11-US3
/ CURRENT APPLICATION NUMBER: US/09/990,186
/ CURRENT FILING DATE: 2001-11-20
/ NUMBER OF SEQ ID NOS: 4085
/ SOFTWARE: Patentin Ver. 2.0
/ SEQ ID NO 2792
/ LENGTH: 7
/ TYPE: PRT
/ ORGANISM: Artificial Sequence
/ FEATURE:
/ OTHER INFORMATION: Description of Artificial Sequence: example ZFP
US-09-990-186-2792

Query Match
Best Local Similarity 100.0%; Score 35; DB 11; Length 7;
Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 DRSNLTR 7
DB 1 DRSNLTR 7

RESULT 65
US-09-990-186-2887
/ Sequence 2887, Application US/09990186
/ Publication No. US20030068675A1
/ GENERAL INFORMATION:
/ APPLICANT: LIU, Qiang
/ TITLE OF INVENTION: POSITION DEPENDENT RECOGNITION OF GNN NUCLEOTIDE
/ FILE REFERENCE: 8325-0011.21 / S11-US3
/ CURRENT APPLICATION NUMBER: US/09/990,186
/ CURRENT FILING DATE: 2001-11-20
/ NUMBER OF SEQ ID NOS: 4085
/ SOFTWARE: Patentin Ver. 2.0
/ SEQ ID NO 2887
/ LENGTH: 7
/ TYPE: PRT
/ ORGANISM: Artificial Sequence
/ FEATURE:
/ OTHER INFORMATION: Description of Artificial Sequence: example ZFP
US-09-990-186-2887

Query Match
Best Local Similarity 100.0%; Score 35; DB 11; Length 7;
Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
```

```
QY 1 DRSNLTR 7
DB 1 DRSNLTR 7

RESULT 66
US-09-990-186-2995
/ Sequence 2995, Application US/09990186
/ Publication No. US20030068675A1
/ GENERAL INFORMATION:
/ APPLICANT: LIU, Qiang
/ TITLE OF INVENTION: POSITION DEPENDENT RECOGNITION OF GNN NUCLEOTIDE
/ FILE REFERENCE: 8325-0011.21 / S11-US3
/ CURRENT APPLICATION NUMBER: US/09/990,186
/ CURRENT FILING DATE: 2001-11-20
/ NUMBER OF SEQ ID NOS: 4085
/ SOFTWARE: Patentin Ver. 2.0
/ SEQ ID NO 2995
/ LENGTH: 7
/ TYPE: PRT
/ ORGANISM: Artificial Sequence
/ FEATURE:
/ OTHER INFORMATION: Description of Artificial Sequence: example ZFP
US-09-990-186-2995

Query Match
Best Local Similarity 100.0%; Score 35; DB 11; Length 7;
Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 DRSNLTR 7
DB 1 DRSNLTR 7

RESULT 67
US-09-990-186-2996
/ Sequence 2996, Application US/09990186
/ Publication No. US20030068675A1
/ GENERAL INFORMATION:
/ APPLICANT: LIU, Qiang
/ TITLE OF INVENTION: POSITION DEPENDENT RECOGNITION OF GNN NUCLEOTIDE
/ FILE REFERENCE: 8325-0011.21 / S11-US3
/ CURRENT APPLICATION NUMBER: US/09/990,186
/ CURRENT FILING DATE: 2001-11-20
/ NUMBER OF SEQ ID NOS: 4085
/ SOFTWARE: Patentin Ver. 2.0
/ SEQ ID NO 2996
/ LENGTH: 7
/ TYPE: PRT
/ ORGANISM: Artificial Sequence
/ FEATURE:
/ OTHER INFORMATION: Description of Artificial Sequence: example ZFP
US-09-990-186-2996

Query Match
Best Local Similarity 100.0%; Score 35; DB 11; Length 7;
Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 DRSNLTR 7
DB 1 DRSNLTR 7

RESULT 68
US-09-990-186-2999
/ Sequence 2999, Application US/09990186
/ Publication No. US20030068675A1
/ GENERAL INFORMATION:
/ APPLICANT: LIU, Qiang
/ TITLE OF INVENTION: POSITION DEPENDENT RECOGNITION OF GNN NUCLEOTIDE
```

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; TITLE OF INVENTION: TRIPLETS BY ZINC FINGERS
; FILE REFERENCE: 8325-0011.21 / S11-US3
; CURRENT APPLICATION NUMBER: US/09/990,186
; CURRENT FILING DATE: 2001-11-20
; NUMBER OF SEQ ID NOS: 4085
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 2999
; LENGTH: 7
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: example ZFP
US-09-990-186-2999

Query Match
Best Local Similarity 100.0%; Score 35; DB 11; Length 7;
Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 DRSNLTR 7
Db 1 DRSNLTR 7

RESULT 69
US-09-990-186-3006
; Sequence 3006, Application US/09990186
; Publication No. US20030068675A1
; GENERAL INFORMATION:
; APPLICANT: Liu, Qiang
; TITLE OF INVENTION: POSITION DEPENDENT RECOGNITION OF GNN NUCLEOTIDE
; FILE REFERENCE: 8325-0011.21 / S11-US3
; CURRENT APPLICATION NUMBER: US/09/990,186
; CURRENT FILING DATE: 2001-11-20
; NUMBER OF SEQ ID NOS: 4085
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 3006
; LENGTH: 7
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: example ZFP
US-09-990-186-3006

Query Match
Best Local Similarity 100.0%; Score 35; DB 11; Length 7;
Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 DRSNLTR 7
Db 1 DRSNLTR 7

RESULT 70
US-09-990-186-3131
; Sequence 3131, Application US/09990186
; Publication No. US20030068675A1
; GENERAL INFORMATION:
; APPLICANT: Liu, Qiang
; TITLE OF INVENTION: POSITION DEPENDENT RECOGNITION OF GNN NUCLEOTIDE
; FILE REFERENCE: 8325-0011.21 / S11-US3
; CURRENT APPLICATION NUMBER: US/09/990,186
; CURRENT FILING DATE: 2001-11-20
; NUMBER OF SEQ ID NOS: 4085
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 3131
; LENGTH: 7
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: example ZFP
US-09-990-186-3131
```

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Query Match
Best Local Similarity 100.0%; Score 35; DB 11; Length 7;
Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 DRSNLTR 7
Db 1 DRSNLTR 7

RESULT 71
US-09-990-186-3197
; Sequence 3197, Application US/09990186
; Publication No. US20030068675A1
; GENERAL INFORMATION:
; APPLICANT: Liu, Qiang
; TITLE OF INVENTION: POSITION DEPENDENT RECOGNITION OF GNN NUCLEOTIDE
; FILE REFERENCE: 8325-0011.21 / S11-US3
; CURRENT APPLICATION NUMBER: US/09/990,186
; CURRENT FILING DATE: 2001-11-20
; NUMBER OF SEQ ID NOS: 4085
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 3197
; LENGTH: 7
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: example ZFP
US-09-990-186-3197

Query Match
Best Local Similarity 100.0%; Score 35; DB 11; Length 7;
Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 DRSNLTR 7
Db 1 DRSNLTR 7

RESULT 72
US-09-990-186-3216
; Sequence 3216, Application US/09990186
; Publication No. US20030068675A1
; GENERAL INFORMATION:
; APPLICANT: Liu, Qiang
; TITLE OF INVENTION: POSITION DEPENDENT RECOGNITION OF GNN NUCLEOTIDE
; FILE REFERENCE: 8325-0011.21 / S11-US3
; CURRENT APPLICATION NUMBER: US/09/990,186
; CURRENT FILING DATE: 2001-11-20
; NUMBER OF SEQ ID NOS: 4085
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 3216
; LENGTH: 7
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: example ZFP
US-09-990-186-3216

Query Match
Best Local Similarity 100.0%; Score 35; DB 11; Length 7;
Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 DRSNLTR 7
Db 1 DRSNLTR 7

RESULT 73
US-09-990-186-3286
; Sequence 3286, Application US/09990186
```

```
Publication No. US20030068675A1
; GENERAL INFORMATION:
; APPLICANT: LIU, Qiang
; TITLE OF INVENTION: POSITION DEPENDENT RECOGNITION OF GNN NUCLEOTIDE
; FILE REFERENCE: 8325-0011.21 / S11-US3
; CURRENT APPLICATION NUMBER: US/09/990,186
; CURRENT FILING DATE: 2001-11-20
; NUMBER OF SEQ ID NOS: 4085
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 3286
; LENGTH: 7
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: example ZFP
US-09-990-186-3286

Query Match
Best Local Similarity 100.0%; Score 35; DB 11; Length 7;
Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 DRSNLTR 7
   |||||
   1 DRSNLTR 7

Db 1 DRSNLTR 7

RESULT 74
US-09-990-186-3287
; Sequence 3287, Application US/09990186
; Publication No. US20030068675A1
; GENERAL INFORMATION:
; APPLICANT: LIU, Qiang
; TITLE OF INVENTION: POSITION DEPENDENT RECOGNITION OF GNN NUCLEOTIDE
; FILE REFERENCE: 8325-0011.21 / S11-US3
; CURRENT APPLICATION NUMBER: US/09/990,186
; CURRENT FILING DATE: 2001-11-20
; NUMBER OF SEQ ID NOS: 4085
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 3287
; LENGTH: 7
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: example ZFP
US-09-990-186-3287

Query Match
Best Local Similarity 100.0%; Score 35; DB 11; Length 7;
Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 DRSNLTR 7
   |||||
   1 DRSNLTR 7

Db 1 DRSNLTR 7

RESULT 75
US-09-990-186-3293
; Sequence 3293, Application US/09990186
; Publication No. US20030068675A1
; GENERAL INFORMATION:
; APPLICANT: LIU, Qiang
; TITLE OF INVENTION: POSITION DEPENDENT RECOGNITION OF GNN NUCLEOTIDE
; FILE REFERENCE: 8325-0011.21 / S11-US3
; CURRENT APPLICATION NUMBER: US/09/990,186
; CURRENT FILING DATE: 2001-11-20
; NUMBER OF SEQ ID NOS: 4085
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 3293
; LENGTH: 7
; TYPE: PRT
```

```
ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: example ZFP
US-09-990-186-3293

Query Match
Best Local Similarity 100.0%; Score 35; DB 11; Length 7;
Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 DRSNLTR 7
   |||||
   1 DRSNLTR 7

Db 1 DRSNLTR 7

RESULT 76
US-09-990-186-3294
; Sequence 3294, Application US/09990186
; Publication No. US20030068675A1
; GENERAL INFORMATION:
; APPLICANT: LIU, Qiang
; TITLE OF INVENTION: POSITION DEPENDENT RECOGNITION OF GNN NUCLEOTIDE
; FILE REFERENCE: 8325-0011.21 / S11-US3
; CURRENT APPLICATION NUMBER: US/09/990,186
; CURRENT FILING DATE: 2001-11-20
; NUMBER OF SEQ ID NOS: 4085
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 3294
; LENGTH: 7
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: example ZFP
US-09-990-186-3294

Query Match
Best Local Similarity 100.0%; Score 35; DB 11; Length 7;
Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 DRSNLTR 7
   |||||
   1 DRSNLTR 7

Db 1 DRSNLTR 7

RESULT 77
US-09-990-186-3417
; Sequence 3417, Application US/09990186
; Publication No. US20030068675A1
; GENERAL INFORMATION:
; APPLICANT: LIU, Qiang
; TITLE OF INVENTION: POSITION DEPENDENT RECOGNITION OF GNN NUCLEOTIDE
; FILE REFERENCE: 8325-0011.21 / S11-US3
; CURRENT APPLICATION NUMBER: US/09/990,186
; CURRENT FILING DATE: 2001-11-20
; NUMBER OF SEQ ID NOS: 4085
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 3417
; LENGTH: 7
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: example ZFP
US-09-990-186-3417

Query Match
Best Local Similarity 100.0%; Score 35; DB 11; Length 7;
Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 DRSNLTR 7
   |||||
   1 DRSNLTR 7

Db 1 DRSNLTR 7
```

```

RESULT 78
US-09-990-186-3419
; Sequence 3419, Application US/09990186
; Publication No. US20030068675A1
; GENERAL INFORMATION:
; APPLICANT: LIU, Qiang
; TITLE OF INVENTION: POSITION DEPENDENT RECOGNITION OF GNN NUCLEOTIDE
; FILE REFERENCE: 8325-0011.21 / S11-US3
; CURRENT APPLICATION NUMBER: US/09/990,186
; CURRENT FILING DATE: 2001-11-20
; NUMBER OF SEQ ID NOS: 4085
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 3419
; LENGTH: 7
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: example ZFP
US-09-990-186-3419

Query Match
Best Local Similarity 100.0%; Score 35; DB 11; Length 7;
Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 DRSNLT 7
Db 1 DRSNLT 7

RESULT 79
US-09-990-186-3535
; Sequence 3535, Application US/09990186
; Publication No. US20030068675A1
; GENERAL INFORMATION:
; APPLICANT: LIU, Qiang
; TITLE OF INVENTION: POSITION DEPENDENT RECOGNITION OF GNN NUCLEOTIDE
; FILE REFERENCE: 8325-0011.21 / S11-US3
; CURRENT APPLICATION NUMBER: US/09/990,186
; CURRENT FILING DATE: 2001-11-20
; NUMBER OF SEQ ID NOS: 4085
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 3535
; LENGTH: 7
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: example ZFP
US-09-990-186-3535

Query Match
Best Local Similarity 100.0%; Score 35; DB 11; Length 7;
Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 DRSNLT 7
Db 1 DRSNLT 7

RESULT 80
US-09-990-186-3572
; Sequence 3572, Application US/09990186
; Publication No. US20030068675A1
; GENERAL INFORMATION:
; APPLICANT: LIU, Qiang
; TITLE OF INVENTION: POSITION DEPENDENT RECOGNITION OF GNN NUCLEOTIDE
; FILE REFERENCE: 8325-0011.21 / S11-US3
; CURRENT APPLICATION NUMBER: US/09/990,186
; CURRENT FILING DATE: 2001-11-20
; NUMBER OF SEQ ID NOS: 4085
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 3572
; LENGTH: 7
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: example ZFP
US-09-990-186-3572

Query Match
Best Local Similarity 100.0%; Score 35; DB 11; Length 7;
Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 DRSNLT 7
Db 1 DRSNLT 7

```

```

; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 3572
; LENGTH: 7
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: example ZFP
US-09-990-186-3572

Query Match
Best Local Similarity 100.0%; Score 35; DB 11; Length 7;
Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 DRSNLT 7
Db 1 DRSNLT 7

RESULT 81
US-09-990-186-3598
; Sequence 3598, Application US/09990186
; Publication No. US20030068675A1
; GENERAL INFORMATION:
; APPLICANT: LIU, Qiang
; TITLE OF INVENTION: POSITION DEPENDENT RECOGNITION OF GNN NUCLEOTIDE
; FILE REFERENCE: 8325-0011.21 / S11-US3
; CURRENT APPLICATION NUMBER: US/09/990,186
; CURRENT FILING DATE: 2001-11-20
; NUMBER OF SEQ ID NOS: 4085
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 3598
; LENGTH: 7
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: example ZFP
US-09-990-186-3598

Query Match
Best Local Similarity 100.0%; Score 35; DB 11; Length 7;
Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 DRSNLT 7
Db 1 DRSNLT 7

RESULT 82
US-09-990-186-3600
; Sequence 3600, Application US/09990186
; Publication No. US20030068675A1
; GENERAL INFORMATION:
; APPLICANT: LIU, Qiang
; TITLE OF INVENTION: POSITION DEPENDENT RECOGNITION OF GNN NUCLEOTIDE
; FILE REFERENCE: 8325-0011.21 / S11-US3
; CURRENT APPLICATION NUMBER: US/09/990,186
; CURRENT FILING DATE: 2001-11-20
; NUMBER OF SEQ ID NOS: 4085
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 3600
; LENGTH: 7
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: example ZFP
US-09-990-186-3600

Query Match
Best Local Similarity 100.0%; Score 35; DB 11; Length 7;
Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 DRSNLT 7
Db 1 DRSNLT 7

```


Qy 1 DRSNLTTR 7
 Db 1 DRSNLTTR 7

RESULT 83

US-09-990-186-3666
 ; Sequence 3666, Application US/09990186
 ; Publication No. US20030068675A1
 ; GENERAL INFORMATION:
 ; APPLICANT: LIU, Qiang
 ; TITLE OF INVENTION: POSITION DEPENDENT RECOGNITION OF GNN NUCLEOTIDE
 ; TITLE OF INVENTION: TRIPLETS BY ZINC FINGERS
 ; FILE REFERENCE: 8325-0011.21 / S11-US3
 ; CURRENT APPLICATION NUMBER: US/09/990,186
 ; CURRENT FILING DATE: 2001-11-20
 ; NUMBER OF SEQ ID NOS: 4085
 ; SOFTWARE: PatentIn Ver. 2.0
 ; SEQ ID NO 3666
 ; LENGTH: 7
 ; TYPE: PRT
 ; ORGANISM: Artificial Sequence
 ; FEATURE:
 ; OTHER INFORMATION: Description of Artificial Sequence: example ZFP
 US-09-990-186-3666

Query Match 100.0%; Score 35; DB 11; Length 7;
 Best Local Similarity 100.0%; Pred. No. 7e+05; 0; Indels 0; Gaps 0;
 Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 DRSNLTTR 7
 Db 1 DRSNLTTR 7

RESULT 84

US-09-990-186-3898
 ; Sequence 3898, Application US/09990186
 ; Publication No. US20030068675A1
 ; GENERAL INFORMATION:
 ; APPLICANT: LIU, Qiang
 ; TITLE OF INVENTION: POSITION DEPENDENT RECOGNITION OF GNN NUCLEOTIDE
 ; TITLE OF INVENTION: TRIPLETS BY ZINC FINGERS
 ; FILE REFERENCE: 8325-0011.21 / S11-US3
 ; CURRENT APPLICATION NUMBER: US/09/990,186
 ; CURRENT FILING DATE: 2001-11-20
 ; NUMBER OF SEQ ID NOS: 4085
 ; SOFTWARE: PatentIn Ver. 2.0
 ; SEQ ID NO 3898
 ; LENGTH: 7
 ; TYPE: PRT
 ; ORGANISM: Artificial Sequence
 ; FEATURE:
 ; OTHER INFORMATION: Description of Artificial Sequence: example ZFP
 US-09-990-186-3898

Query Match 100.0%; Score 35; DB 11; Length 7;
 Best Local Similarity 100.0%; Pred. No. 7e+05; 0; Indels 0; Gaps 0;
 Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 DRSNLTTR 7
 Db 1 DRSNLTTR 7

RESULT 85

US-09-990-186-3899
 ; Sequence 3899, Application US/09990186
 ; Publication No. US20030068675A1
 ; GENERAL INFORMATION:
 ; APPLICANT: LIU, Qiang
 ; TITLE OF INVENTION: POSITION DEPENDENT RECOGNITION OF GNN NUCLEOTIDE
 ; TITLE OF INVENTION: TRIPLETS BY ZINC FINGERS
 ; FILE REFERENCE: 8325-0011.21 / S11-US3
 ; CURRENT APPLICATION NUMBER: US/09/990,186
 ; CURRENT FILING DATE: 2001-11-20
 ; NUMBER OF SEQ ID NOS: 4085
 ; SOFTWARE: PatentIn Ver. 2.0
 ; SEQ ID NO 3899
 ; LENGTH: 7
 ; TYPE: PRT
 ; ORGANISM: Artificial Sequence
 ; FEATURE:
 ; OTHER INFORMATION: Description of Artificial Sequence: example ZFP
 US-09-990-186-3899

FILE REFERENCE: 8325-0011.21 / S11-US3
 ; CURRENT APPLICATION NUMBER: US/09/990,186
 ; CURRENT FILING DATE: 2001-11-20
 ; NUMBER OF SEQ ID NOS: 4085
 ; SOFTWARE: PatentIn Ver. 2.0
 ; SEQ ID NO 3899
 ; LENGTH: 7
 ; TYPE: PRT
 ; ORGANISM: Artificial Sequence
 ; FEATURE:
 ; OTHER INFORMATION: Description of Artificial Sequence: example ZFP
 US-09-990-186-3899

Query Match 100.0%; Score 35; DB 11; Length 7;
 Best Local Similarity 100.0%; Pred. No. 7e+05; 0; Indels 0; Gaps 0;
 Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 DRSNLTTR 7
 Db 1 DRSNLTTR 7

RESULT 86

US-09-990-186-3976
 ; Sequence 3976, Application US/09990186
 ; Publication No. US20030068675A1
 ; GENERAL INFORMATION:
 ; APPLICANT: LIU, Qiang
 ; TITLE OF INVENTION: POSITION DEPENDENT RECOGNITION OF GNN NUCLEOTIDE
 ; TITLE OF INVENTION: TRIPLETS BY ZINC FINGERS
 ; FILE REFERENCE: 8325-0011.21 / S11-US3
 ; CURRENT APPLICATION NUMBER: US/09/990,186
 ; CURRENT FILING DATE: 2001-11-20
 ; NUMBER OF SEQ ID NOS: 4085
 ; SOFTWARE: PatentIn Ver. 2.0
 ; SEQ ID NO 3976
 ; LENGTH: 7
 ; TYPE: PRT
 ; ORGANISM: Artificial Sequence
 ; FEATURE:
 ; OTHER INFORMATION: Description of Artificial Sequence: example ZFP
 US-09-990-186-3976

Query Match 100.0%; Score 35; DB 11; Length 7;
 Best Local Similarity 100.0%; Pred. No. 7e+05; 0; Indels 0; Gaps 0;
 Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 DRSNLTTR 7
 Db 1 DRSNLTTR 7

RESULT 87

US-09-990-186-3979
 ; Sequence 3979, Application US/09990186
 ; Publication No. US20030068675A1
 ; GENERAL INFORMATION:
 ; APPLICANT: LIU, Qiang
 ; TITLE OF INVENTION: POSITION DEPENDENT RECOGNITION OF GNN NUCLEOTIDE
 ; TITLE OF INVENTION: TRIPLETS BY ZINC FINGERS
 ; FILE REFERENCE: 8325-0011.21 / S11-US3
 ; CURRENT APPLICATION NUMBER: US/09/990,186
 ; CURRENT FILING DATE: 2001-11-20
 ; NUMBER OF SEQ ID NOS: 4085
 ; SOFTWARE: PatentIn Ver. 2.0
 ; SEQ ID NO 3979
 ; LENGTH: 7
 ; TYPE: PRT
 ; ORGANISM: Artificial Sequence
 ; FEATURE:
 ; OTHER INFORMATION: Description of Artificial Sequence: example ZFP
 US-09-990-186-3979

Query Match 100.0%; Score 35; DB 11; Length 7;
Best Local Similarity 100.0%; Pred. No. 7e+05; 0;
Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 DRSNLT 7
| | | | |
Db 1 DRSNLT 7

RESULT 88

US-09-989-994-395
; Sequence 395, Application US/09989994
; Publication No. US20030104526A1
; GENERAL INFORMATION:

; APPLICANT: LIU, Qiang
; TITLE OF INVENTION: POSITION DEPENDENT RECOGNITION OF GNN NUCLEOTIDE
; TITLE OF INVENTION: TRIPLETS BY ZINC FINGERS
; FILE REFERENCE: 8325-0011.20 / S11-US2
; CURRENT APPLICATION NUMBER: US/09/989,994
; CURRENT FILING DATE: 2001-11-20
; NUMBER OF SEQ ID NOS: 4085
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 395
; LENGTH: 7
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: example ZFP

US-09-989-994-395

Query Match 100.0%; Score 35; DB 11; Length 7;
Best Local Similarity 100.0%; Pred. No. 7e+05; 0;
Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 DRSNLT 7
| | | | |
Db 1 DRSNLT 7

RESULT 89

US-09-989-994-1376
; Sequence 1376, Application US/09989994
; Publication No. US20030104526A1
; GENERAL INFORMATION:

; APPLICANT: LIU, Qiang
; TITLE OF INVENTION: POSITION DEPENDENT RECOGNITION OF GNN NUCLEOTIDE
; TITLE OF INVENTION: TRIPLETS BY ZINC FINGERS
; FILE REFERENCE: 8325-0011.20 / S11-US2
; CURRENT APPLICATION NUMBER: US/09/989,994
; CURRENT FILING DATE: 2001-11-20
; NUMBER OF SEQ ID NOS: 4085
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 1376
; LENGTH: 7
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: example ZFP

US-09-989-994-1376

Query Match 100.0%; Score 35; DB 11; Length 7;
Best Local Similarity 100.0%; Pred. No. 7e+05; 0;
Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 DRSNLT 7
| | | | |
Db 1 DRSNLT 7

RESULT 90

US-09-989-994-1454
; Sequence 1454, Application US/09989994
; Publication No. US20030104526A1

; GENERAL INFORMATION:
; APPLICANT: LIU, Qiang
; TITLE OF INVENTION: POSITION DEPENDENT RECOGNITION OF GNN NUCLEOTIDE
; TITLE OF INVENTION: TRIPLETS BY ZINC FINGERS
; FILE REFERENCE: 8325-0011.20 / S11-US2
; CURRENT APPLICATION NUMBER: US/09/989,994
; CURRENT FILING DATE: 2001-11-20
; NUMBER OF SEQ ID NOS: 4085
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 1454
; LENGTH: 7
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: example ZFP

US-09-989-994-1454

Query Match 100.0%; Score 35; DB 11; Length 7;
Best Local Similarity 100.0%; Pred. No. 7e+05; 0;
Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 DRSNLT 7
| | | | |
Db 1 DRSNLT 7

RESULT 91

US-09-989-994-1464
; Sequence 1464, Application US/09989994
; Publication No. US20030104526A1
; GENERAL INFORMATION:

; APPLICANT: LIU, Qiang
; TITLE OF INVENTION: POSITION DEPENDENT RECOGNITION OF GNN NUCLEOTIDE
; TITLE OF INVENTION: TRIPLETS BY ZINC FINGERS
; FILE REFERENCE: 8325-0011.20 / S11-US2
; CURRENT APPLICATION NUMBER: US/09/989,994
; CURRENT FILING DATE: 2001-11-20
; NUMBER OF SEQ ID NOS: 4085
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 1464
; LENGTH: 7
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: example ZFP

US-09-989-994-1464

Query Match 100.0%; Score 35; DB 11; Length 7;
Best Local Similarity 100.0%; Pred. No. 7e+05; 0;
Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 DRSNLT 7
| | | | |
Db 1 DRSNLT 7

RESULT 92

US-09-989-994-1525
; Sequence 1525, Application US/09989994
; Publication No. US20030104526A1
; GENERAL INFORMATION:

; APPLICANT: LIU, Qiang
; TITLE OF INVENTION: POSITION DEPENDENT RECOGNITION OF GNN NUCLEOTIDE
; TITLE OF INVENTION: TRIPLETS BY ZINC FINGERS
; FILE REFERENCE: 8325-0011.20 / S11-US2
; CURRENT APPLICATION NUMBER: US/09/989,994
; CURRENT FILING DATE: 2001-11-20
; NUMBER OF SEQ ID NOS: 4085
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 1525
; LENGTH: 7
; TYPE: PRT
; ORGANISM: Artificial Sequence

US-09-989-994-1525

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; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: example ZFP
US-09-989-994-1525

```

```

Query Match      100.0%; Score 35; DB 11; Length 7;
Best Local Similarity 100.0%; Pred. No. 7e+05;
Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

```

```

Qy      1 DRSNLTR 7
        |||||
Db      1 DRSNLTR 7

```

```

RESULT 93
US-09-989-994-1553
; Sequence 1553, Application US/09989994
; Publication No. US20030104526A1
; GENERAL INFORMATION:
; APPLICANT: LIU, Qiang
; TITLE OF INVENTION: POSITION DEPENDENT RECOGNITION OF GNN NUCLEOTIDE
; FILE REFERENCE: 8325-0011.20 / S11-US2
; CURRENT APPLICATION NUMBER: US/09/989,994
; CURRENT FILING DATE: 2001-11-20
; NUMBER OF SEQ ID NOS: 4085
; SOFTWARE: Patentin Ver. 2.0
; SEQ ID NO 1553
; LENGTH: 7
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: example ZFP
US-09-989-994-1553

```

```

Query Match      100.0%; Score 35; DB 11; Length 7;
Best Local Similarity 100.0%; Pred. No. 7e+05;
Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

```

```

Qy      1 DRSNLTR 7
        |||||
Db      1 DRSNLTR 7

```

```

RESULT 94
US-09-989-994-1559
; Sequence 1559, Application US/09989994
; Publication No. US20030104526A1
; GENERAL INFORMATION:
; APPLICANT: LIU, Qiang
; TITLE OF INVENTION: POSITION DEPENDENT RECOGNITION OF GNN NUCLEOTIDE
; FILE REFERENCE: 8325-0011.20 / S11-US2
; CURRENT APPLICATION NUMBER: US/09/989,994
; CURRENT FILING DATE: 2001-11-20
; NUMBER OF SEQ ID NOS: 4085
; SOFTWARE: Patentin Ver. 2.0
; SEQ ID NO 1559
; LENGTH: 7
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: example ZFP
US-09-989-994-1559

```

```

Query Match      100.0%; Score 35; DB 11; Length 7;
Best Local Similarity 100.0%; Pred. No. 7e+05;
Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

```

```

Qy      1 DRSNLTR 7
        |||||
Db      1 DRSNLTR 7

```

```

RESULT 95
US-09-989-994-1564
; Sequence 1564, Application US/09989994
; Publication No. US20030104526A1
; GENERAL INFORMATION:
; APPLICANT: LIU, Qiang
; TITLE OF INVENTION: POSITION DEPENDENT RECOGNITION OF GNN NUCLEOTIDE
; FILE REFERENCE: 8325-0011.20 / S11-US2
; CURRENT APPLICATION NUMBER: US/09/989,994
; CURRENT FILING DATE: 2001-11-20
; NUMBER OF SEQ ID NOS: 4085
; SOFTWARE: Patentin Ver. 2.0
; SEQ ID NO 1564
; LENGTH: 7
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: example ZFP
US-09-989-994-1564

```

```

Query Match      100.0%; Score 35; DB 11; Length 7;
Best Local Similarity 100.0%; Pred. No. 7e+05;
Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

```

```

Qy      1 DRSNLTR 7
        |||||
Db      1 DRSNLTR 7

```

```

Query Match      100.0%; Score 35; DB 11; Length 7;
Best Local Similarity 100.0%; Pred. No. 7e+05;
Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

```

```

Qy      1 DRSNLTR 7
        |||||
Db      1 DRSNLTR 7

```

```

RESULT 96
US-09-989-994-1577
; Sequence 1577, Application US/09989994
; Publication No. US20030104526A1
; GENERAL INFORMATION:
; APPLICANT: LIU, Qiang
; TITLE OF INVENTION: POSITION DEPENDENT RECOGNITION OF GNN NUCLEOTIDE
; FILE REFERENCE: 8325-0011.20 / S11-US2
; CURRENT APPLICATION NUMBER: US/09/989,994
; CURRENT FILING DATE: 2001-11-20
; NUMBER OF SEQ ID NOS: 4085
; SOFTWARE: Patentin Ver. 2.0
; SEQ ID NO 1577
; LENGTH: 7
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: example ZFP
US-09-989-994-1577

```

```

Query Match      100.0%; Score 35; DB 11; Length 7;
Best Local Similarity 100.0%; Pred. No. 7e+05;
Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

```

```

Qy      1 DRSNLTR 7
        |||||
Db      1 DRSNLTR 7

```

```

RESULT 97
US-09-989-994-1899
; Sequence 1899, Application US/09989994
; Publication No. US20030104526A1
; GENERAL INFORMATION:
; APPLICANT: LIU, Qiang
; TITLE OF INVENTION: POSITION DEPENDENT RECOGNITION OF GNN NUCLEOTIDE
; FILE REFERENCE: 8325-0011.20 / S11-US2
; CURRENT APPLICATION NUMBER: US/09/989,994
; CURRENT FILING DATE: 2001-11-20
; NUMBER OF SEQ ID NOS: 4085
; SOFTWARE: Patentin Ver. 2.0

```

```

; SEQ ID NO 1899
; LENGTH: 7
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: example ZFP
US-09-989-994-1899

Query Match
Best Local Similarity 100.0%; Score 35; DB 11; Length 7;
Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 DRSNLTR 7
Db 1 DRSNLTR 7

RESULT 98
US-09-989-994-2668
; Sequence 2668, Application US/09989994
; Publication No. US20030104526A1
; GENERAL INFORMATION:
; APPLICANT: LIU, Qiang
; TITLE OF INVENTION: POSITION DEPENDENT RECOGNITION OF GNN NUCLEOTIDE
; FILE REFERENCE: 8325-0011.20 / S11-US2
; CURRENT APPLICATION NUMBER: US/09/989,994
; CURRENT FILING DATE: 2001-11-20
; NUMBER OF SEQ ID NOS: 4085
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 2668
; LENGTH: 7
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: example ZFP
US-09-989-994-2668

Query Match
Best Local Similarity 100.0%; Score 35; DB 11; Length 7;
Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 DRSNLTR 7
Db 1 DRSNLTR 7

RESULT 99
US-09-989-994-2705
; Sequence 2705, Application US/09989994
; Publication No. US20030104526A1
; GENERAL INFORMATION:
; APPLICANT: LIU, Qiang
; TITLE OF INVENTION: POSITION DEPENDENT RECOGNITION OF GNN NUCLEOTIDE
; FILE REFERENCE: 8325-0011.20 / S11-US2
; CURRENT APPLICATION NUMBER: US/09/989,994
; CURRENT FILING DATE: 2001-11-20
; NUMBER OF SEQ ID NOS: 4085
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 2705
; LENGTH: 7
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: example ZFP
US-09-989-994-2705

Query Match
Best Local Similarity 100.0%; Score 35; DB 11; Length 7;
Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 DRSNLTR 7
```

```

Db 1 DRSNLTR 7

RESULT 100
US-09-989-994-2737
; Sequence 2737, Application US/09989994
; Publication No. US20030104526A1
; GENERAL INFORMATION:
; APPLICANT: LIU, Qiang
; TITLE OF INVENTION: POSITION DEPENDENT RECOGNITION OF GNN NUCLEOTIDE
; FILE REFERENCE: 8325-0011.20 / S11-US2
; CURRENT APPLICATION NUMBER: US/09/989,994
; CURRENT FILING DATE: 2001-11-20
; NUMBER OF SEQ ID NOS: 4085
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 2737
; LENGTH: 7
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: example ZFP
US-09-989-994-2737

Query Match
Best Local Similarity 100.0%; Score 35; DB 11; Length 7;
Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 DRSNLTR 7
Db 1 DRSNLTR 7

RESULT 101
US-09-989-994-2791
; Sequence 2791, Application US/09989994
; Publication No. US20030104526A1
; GENERAL INFORMATION:
; APPLICANT: LIU, Qiang
; TITLE OF INVENTION: POSITION DEPENDENT RECOGNITION OF GNN NUCLEOTIDE
; FILE REFERENCE: 8325-0011.20 / S11-US2
; CURRENT APPLICATION NUMBER: US/09/989,994
; CURRENT FILING DATE: 2001-11-20
; NUMBER OF SEQ ID NOS: 4085
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 2791
; LENGTH: 7
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: example ZFP
US-09-989-994-2791

Query Match
Best Local Similarity 100.0%; Score 35; DB 11; Length 7;
Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 DRSNLTR 7
Db 1 DRSNLTR 7

RESULT 102
US-09-989-994-2792
; Sequence 2792, Application US/09989994
; Publication No. US20030104526A1
; GENERAL INFORMATION:
; APPLICANT: LIU, Qiang
; TITLE OF INVENTION: POSITION DEPENDENT RECOGNITION OF GNN NUCLEOTIDE
; FILE REFERENCE: 8325-0011.20 / S11-US2
```

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; CURRENT APPLICATION NUMBER: US/09/989,994
; CURRENT FILING DATE: 2001-11-20
; NUMBER OF SEQ ID NOS: 4085
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 2792
; LENGTH: 7
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: example ZFP
US-09-989-994-2792

Query Match
Best Local Similarity 100.0%; Score 35; DB 11; Length 7;
Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 DRSNLTR 7
DB 1 DRSNLTR 7

RESULT 103
US-09-989-994-2887
; Sequence 2887, Application US/09989994
; Publication No. US20030104526A1
; GENERAL INFORMATION:
; APPLICANT: LIU, Qiang
; TITLE OF INVENTION: POSITION DEPENDENT RECOGNITION OF GNN NUCLEOTIDE
; FILE REFERENCE: 8325-0011.20 / S11-US2
; CURRENT APPLICATION NUMBER: US/09/989,994
; CURRENT FILING DATE: 2001-11-20
; NUMBER OF SEQ ID NOS: 4085
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 2887
; LENGTH: 7
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: example ZFP
US-09-989-994-2887

Query Match
Best Local Similarity 100.0%; Score 35; DB 11; Length 7;
Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 DRSNLTR 7
DB 1 DRSNLTR 7

RESULT 104
US-09-989-994-2995
; Sequence 2995, Application US/09989994
; Publication No. US20030104526A1
; GENERAL INFORMATION:
; APPLICANT: LIU, Qiang
; TITLE OF INVENTION: POSITION DEPENDENT RECOGNITION OF GNN NUCLEOTIDE
; FILE REFERENCE: 8325-0011.20 / S11-US2
; CURRENT APPLICATION NUMBER: US/09/989,994
; CURRENT FILING DATE: 2001-11-20
; NUMBER OF SEQ ID NOS: 4085
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 2995
; LENGTH: 7
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: example ZFP
US-09-989-994-2995

Query Match
Best Local Similarity 100.0%; Score 35; DB 11; Length 7;
Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 DRSNLTR 7
DB 1 DRSNLTR 7
```

```

Best Local Similarity 100.0%; Pred. No. 7e+05;
Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 DRSNLTR 7
DB 1 DRSNLTR 7

RESULT 105
US-09-989-994-2996
; Sequence 2996, Application US/09989994
; Publication No. US20030104526A1
; GENERAL INFORMATION:
; APPLICANT: LIU, Qiang
; TITLE OF INVENTION: POSITION DEPENDENT RECOGNITION OF GNN NUCLEOTIDE
; FILE REFERENCE: 8325-0011.20 / S11-US2
; CURRENT APPLICATION NUMBER: US/09/989,994
; CURRENT FILING DATE: 2001-11-20
; NUMBER OF SEQ ID NOS: 4085
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 2996
; LENGTH: 7
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: example ZFP
US-09-989-994-2996

Query Match
Best Local Similarity 100.0%; Score 35; DB 11; Length 7;
Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 DRSNLTR 7
DB 1 DRSNLTR 7

RESULT 106
US-09-989-994-2999
; Sequence 2999, Application US/09989994
; Publication No. US20030104526A1
; GENERAL INFORMATION:
; APPLICANT: LIU, Qiang
; TITLE OF INVENTION: POSITION DEPENDENT RECOGNITION OF GNN NUCLEOTIDE
; FILE REFERENCE: 8325-0011.20 / S11-US2
; CURRENT APPLICATION NUMBER: US/09/989,994
; CURRENT FILING DATE: 2001-11-20
; NUMBER OF SEQ ID NOS: 4085
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 2999
; LENGTH: 7
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: example ZFP
US-09-989-994-2999

Query Match
Best Local Similarity 100.0%; Score 35; DB 11; Length 7;
Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 DRSNLTR 7
DB 1 DRSNLTR 7

RESULT 107
US-09-989-994-3006
; Sequence 3006, Application US/09989994
; Publication No. US20030104526A1
; GENERAL INFORMATION:
; APPLICANT: LIU, Qiang
; TITLE OF INVENTION: POSITION DEPENDENT RECOGNITION OF GNN NUCLEOTIDE
; FILE REFERENCE: 8325-0011.20 / S11-US2
; CURRENT APPLICATION NUMBER: US/09/989,994
; CURRENT FILING DATE: 2001-11-20
; NUMBER OF SEQ ID NOS: 4085
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 3006
; LENGTH: 7
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: example ZFP
US-09-989-994-3006

Query Match
Best Local Similarity 100.0%; Score 35; DB 11; Length 7;
Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 DRSNLTR 7
DB 1 DRSNLTR 7
```

```
APPLICANT: LIU, Qiang
TITLE OF INVENTION: POSITION DEPENDENT RECOGNITION OF GNN NUCLEOTIDE
FILE REFERENCE: 8325-0011.20 / S11-US2
CURRENT APPLICATION NUMBER: US/09/989,994
CURRENT FILING DATE: 2001-11-20
NUMBER OF SEQ ID NOS: 4085
SOFTWARE: PatentIn Ver. 2.0
SEQ ID NO 3006
LENGTH: 7
TYPE: PRT
ORGANISM: Artificial Sequence
FEATURE:
OTHER INFORMATION: Description of Artificial Sequence: example ZFP
US-09-989-994-3006

Query Match
Best Local Similarity 100.0%; Score 35; DB 11; Length 7;
Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Cy 1 DRSNLT 7
Db 1 DRSNLT 7

RESULT 108
US-09-989-994-3131
Sequence 3131, Application US/09989994
Publication No. US20030104526A1
GENERAL INFORMATION:
APPLICANT: LIU, Qiang
TITLE OF INVENTION: POSITION DEPENDENT RECOGNITION OF GNN NUCLEOTIDE
FILE REFERENCE: 8325-0011.20 / S11-US2
CURRENT APPLICATION NUMBER: US/09/989,994
CURRENT FILING DATE: 2001-11-20
NUMBER OF SEQ ID NOS: 4085
SOFTWARE: PatentIn Ver. 2.0
SEQ ID NO 3131
LENGTH: 7
TYPE: PRT
ORGANISM: Artificial Sequence
FEATURE:
OTHER INFORMATION: Description of Artificial Sequence: example ZFP
US-09-989-994-3131

Query Match
Best Local Similarity 100.0%; Score 35; DB 11; Length 7;
Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Cy 1 DRSNLT 7
Db 1 DRSNLT 7

RESULT 109
US-09-989-994-3197
Sequence 3197, Application US/09989994
Publication No. US20030104526A1
GENERAL INFORMATION:
APPLICANT: LIU, Qiang
TITLE OF INVENTION: POSITION DEPENDENT RECOGNITION OF GNN NUCLEOTIDE
FILE REFERENCE: 8325-0011.20 / S11-US2
CURRENT APPLICATION NUMBER: US/09/989,994
CURRENT FILING DATE: 2001-11-20
NUMBER OF SEQ ID NOS: 4085
SOFTWARE: PatentIn Ver. 2.0
SEQ ID NO 3197
LENGTH: 7
TYPE: PRT
ORGANISM: Artificial Sequence
FEATURE:
```

```
OTHER INFORMATION: Description of Artificial Sequence: example ZFP
US-09-989-994-3197

Query Match
Best Local Similarity 100.0%; Score 35; DB 11; Length 7;
Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Cy 1 DRSNLT 7
Db 1 DRSNLT 7

RESULT 110
US-09-989-994-3216
Sequence 3216, Application US/09989994
Publication No. US20030104526A1
GENERAL INFORMATION:
APPLICANT: LIU, Qiang
TITLE OF INVENTION: POSITION DEPENDENT RECOGNITION OF GNN NUCLEOTIDE
FILE REFERENCE: 8325-0011.20 / S11-US2
CURRENT APPLICATION NUMBER: US/09/989,994
CURRENT FILING DATE: 2001-11-20
NUMBER OF SEQ ID NOS: 4085
SOFTWARE: PatentIn Ver. 2.0
SEQ ID NO 3216
LENGTH: 7
TYPE: PRT
ORGANISM: Artificial Sequence
FEATURE:
OTHER INFORMATION: Description of Artificial Sequence: example ZFP
US-09-989-994-3216

Query Match
Best Local Similarity 100.0%; Score 35; DB 11; Length 7;
Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Cy 1 DRSNLT 7
Db 1 DRSNLT 7

RESULT 111
US-09-989-994-3286
Sequence 3286, Application US/09989994
Publication No. US20030104526A1
GENERAL INFORMATION:
APPLICANT: LIU, Qiang
TITLE OF INVENTION: POSITION DEPENDENT RECOGNITION OF GNN NUCLEOTIDE
FILE REFERENCE: 8325-0011.20 / S11-US2
CURRENT APPLICATION NUMBER: US/09/989,994
CURRENT FILING DATE: 2001-11-20
NUMBER OF SEQ ID NOS: 4085
SOFTWARE: PatentIn Ver. 2.0
SEQ ID NO 3286
LENGTH: 7
TYPE: PRT
ORGANISM: Artificial Sequence
FEATURE:
OTHER INFORMATION: Description of Artificial Sequence: example ZFP
US-09-989-994-3286

Query Match
Best Local Similarity 100.0%; Score 35; DB 11; Length 7;
Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Cy 1 DRSNLT 7
Db 1 DRSNLT 7

RESULT 112
```

US-09-989-994-3287
; Sequence 3287, Application US/09989994
; Publication No. US20030104526A1
; GENERAL INFORMATION:
; APPLICANT: LIU, Qiang
; TITLE OF INVENTION: POSITION DEPENDENT RECOGNITION OF GNN NUCLEOTIDE
; FILE REFERENCE: 8325-0011.20 / S11-US2
; CURRENT APPLICATION NUMBER: US/09/989,994
; CURRENT FILING DATE: 2001-11-20
; NUMBER OF SEQ ID NOS: 4085
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 3287
; LENGTH: 7
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: example ZFP
US-09-989-994-3287

Query Match 100.0%; Score 35; DB 11; Length 7;
Best Local Similarity 100.0%; Pred. No. 7e+05; Indels 0; Gaps 0;
Matches 7; Conservative 0; Mismatches 0;

Oy 1 DRSNLTTR 7
|||
Db 1 DRSNLTTR 7

RESULT 113
US-09-989-994-3293
; Sequence 3293, Application US/09989994
; Publication No. US20030104526A1
; GENERAL INFORMATION:
; APPLICANT: LIU, Qiang
; TITLE OF INVENTION: POSITION DEPENDENT RECOGNITION OF GNN NUCLEOTIDE
; FILE REFERENCE: 8325-0011.20 / S11-US2
; CURRENT APPLICATION NUMBER: US/09/989,994
; CURRENT FILING DATE: 2001-11-20
; NUMBER OF SEQ ID NOS: 4085
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 3293
; LENGTH: 7
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: example ZFP
US-09-989-994-3293

Query Match 100.0%; Score 35; DB 11; Length 7;
Best Local Similarity 100.0%; Pred. No. 7e+05; Indels 0; Gaps 0;
Matches 7; Conservative 0; Mismatches 0;

Oy 1 DRSNLTTR 7
|||
Db 1 DRSNLTTR 7

RESULT 114
US-09-989-994-3294
; Sequence 3294, Application US/09989994
; Publication No. US20030104526A1
; GENERAL INFORMATION:
; APPLICANT: LIU, Qiang
; TITLE OF INVENTION: POSITION DEPENDENT RECOGNITION OF GNN NUCLEOTIDE
; FILE REFERENCE: 8325-0011.20 / S11-US2
; CURRENT APPLICATION NUMBER: US/09/989,994
; CURRENT FILING DATE: 2001-11-20
; NUMBER OF SEQ ID NOS: 4085
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 3294

LENGTH: 7
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: example ZFP
US-09-989-994-3294

Query Match 100.0%; Score 35; DB 11; Length 7;
Best Local Similarity 100.0%; Pred. No. 7e+05; Indels 0; Gaps 0;
Matches 7; Conservative 0; Mismatches 0;

Oy 1 DRSNLTTR 7
|||
Db 1 DRSNLTTR 7

RESULT 115
US-09-989-994-3417
; Sequence 3417, Application US/09989994
; Publication No. US20030104526A1
; GENERAL INFORMATION:
; APPLICANT: LIU, Qiang
; TITLE OF INVENTION: POSITION DEPENDENT RECOGNITION OF GNN NUCLEOTIDE
; FILE REFERENCE: 8325-0011.20 / S11-US2
; CURRENT APPLICATION NUMBER: US/09/989,994
; CURRENT FILING DATE: 2001-11-20
; NUMBER OF SEQ ID NOS: 4085
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 3417
; LENGTH: 7
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: example ZFP
US-09-989-994-3417

Query Match 100.0%; Score 35; DB 11; Length 7;
Best Local Similarity 100.0%; Pred. No. 7e+05; Indels 0; Gaps 0;
Matches 7; Conservative 0; Mismatches 0;

Oy 1 DRSNLTTR 7
|||
Db 1 DRSNLTTR 7

RESULT 116
US-09-989-994-3419
; Sequence 3419, Application US/09989994
; Publication No. US20030104526A1
; GENERAL INFORMATION:
; APPLICANT: LIU, Qiang
; TITLE OF INVENTION: POSITION DEPENDENT RECOGNITION OF GNN NUCLEOTIDE
; FILE REFERENCE: 8325-0011.20 / S11-US2
; CURRENT APPLICATION NUMBER: US/09/989,994
; CURRENT FILING DATE: 2001-11-20
; NUMBER OF SEQ ID NOS: 4085
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 3419
; LENGTH: 7
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: example ZFP
US-09-989-994-3419

Query Match 100.0%; Score 35; DB 11; Length 7;
Best Local Similarity 100.0%; Pred. No. 7e+05; Indels 0; Gaps 0;
Matches 7; Conservative 0; Mismatches 0;

Oy 1 DRSNLTTR 7
|||

Db 1 DRSNLTR 7

RESULT 117

US-09-989-994-3535

Sequence 3535, Application US/099899994

Publication No. US20030104526A1

GENERAL INFORMATION:

APPLICANT: LIU, Qiang

TITLE OF INVENTION: POSITION DEPENDENT RECOGNITION OF GNN NUCLEOTIDE

FILE REFERENCE: 8325-0011.20 / S11-US2

CURRENT APPLICATION NUMBER: US/09/989,994

CURRENT FILING DATE: 2001-11-20

NUMBER OF SEQ ID NOS: 4085

SOFTWARE: PatentIn Ver. 2.0

SEQ ID NO 3535

LENGTH: 7

TYPE: PRT

ORGANISM: Artificial Sequence

FEATURE:

OTHER INFORMATION: Description of Artificial Sequence: example ZFP

US-09-989-994-3535

Query Match

100.0%; Score 35; DB 11; Length 7;

Best Local Similarity 100.0%; Pred. No. 7e+05;

Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 DRSNLTR 7

Db 1 DRSNLTR 7

RESULT 118

US-09-989-994-3572

Sequence 3572, Application US/099899994

Publication No. US20030104526A1

GENERAL INFORMATION:

APPLICANT: LIU, Qiang

TITLE OF INVENTION: POSITION DEPENDENT RECOGNITION OF GNN NUCLEOTIDE

FILE REFERENCE: 8325-0011.20 / S11-US2

CURRENT APPLICATION NUMBER: US/09/989,994

CURRENT FILING DATE: 2001-11-20

NUMBER OF SEQ ID NOS: 4085

SOFTWARE: PatentIn Ver. 2.0

SEQ ID NO 3572

LENGTH: 7

TYPE: PRT

ORGANISM: Artificial Sequence

FEATURE:

OTHER INFORMATION: Description of Artificial Sequence: example ZFP

US-09-989-994-3572

Query Match

100.0%; Score 35; DB 11; Length 7;

Best Local Similarity 100.0%; Pred. No. 7e+05;

Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 DRSNLTR 7

Db 1 DRSNLTR 7

RESULT 119

US-09-989-994-3598

Sequence 3598, Application US/099899994

Publication No. US20030104526A1

GENERAL INFORMATION:

APPLICANT: LIU, Qiang

TITLE OF INVENTION: POSITION DEPENDENT RECOGNITION OF GNN NUCLEOTIDE

FILE REFERENCE: 8325-0011.20 / S11-US2

CURRENT APPLICATION NUMBER: US/09/989,994

CURRENT FILING DATE: 2001-11-20

NUMBER OF SEQ ID NOS: 4085

SOFTWARE: PatentIn Ver. 2.0

SEQ ID NO 3598

LENGTH: 7

TYPE: PRT

ORGANISM: Artificial Sequence

FEATURE:

OTHER INFORMATION: Description of Artificial Sequence: example ZFP

US-09-989-994-3598

Query Match

100.0%; Score 35; DB 11; Length 7;

Best Local Similarity 100.0%; Pred. No. 7e+05;

Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 DRSNLTR 7

Db 1 DRSNLTR 7

CURRENT FILING DATE: 2001-11-20

NUMBER OF SEQ ID NOS: 4085

SOFTWARE: PatentIn Ver. 2.0

SEQ ID NO 3598

LENGTH: 7

TYPE: PRT

ORGANISM: Artificial Sequence

FEATURE:

OTHER INFORMATION: Description of Artificial Sequence: example ZFP

US-09-989-994-3598

Query Match

100.0%; Score 35; DB 11; Length 7;

Best Local Similarity 100.0%; Pred. No. 7e+05;

Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 DRSNLTR 7

Db 1 DRSNLTR 7

RESULT 120

US-09-989-994-3600

Sequence 3600, Application US/099899994

Publication No. US20030104526A1

GENERAL INFORMATION:

APPLICANT: LIU, Qiang

TITLE OF INVENTION: POSITION DEPENDENT RECOGNITION OF GNN NUCLEOTIDE

FILE REFERENCE: 8325-0011.20 / S11-US2

CURRENT APPLICATION NUMBER: US/09/989,994

CURRENT FILING DATE: 2001-11-20

NUMBER OF SEQ ID NOS: 4085

SOFTWARE: PatentIn Ver. 2.0

SEQ ID NO 3600

LENGTH: 7

TYPE: PRT

ORGANISM: Artificial Sequence

FEATURE:

OTHER INFORMATION: Description of Artificial Sequence: example ZFP

US-09-989-994-3600

Query Match

100.0%; Score 35; DB 11; Length 7;

Best Local Similarity 100.0%; Pred. No. 7e+05;

Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 DRSNLTR 7

Db 1 DRSNLTR 7

RESULT 121

US-09-989-994-3666

Sequence 3666, Application US/099899994

Publication No. US20030104526A1

GENERAL INFORMATION:

APPLICANT: LIU, Qiang

TITLE OF INVENTION: POSITION DEPENDENT RECOGNITION OF GNN NUCLEOTIDE

FILE REFERENCE: 8325-0011.20 / S11-US2

CURRENT APPLICATION NUMBER: US/09/989,994

CURRENT FILING DATE: 2001-11-20

NUMBER OF SEQ ID NOS: 4085

SOFTWARE: PatentIn Ver. 2.0

SEQ ID NO 3666

LENGTH: 7

TYPE: PRT

ORGANISM: Artificial Sequence

FEATURE:

OTHER INFORMATION: Description of Artificial Sequence: example ZFP

US-09-989-994-3666

Query Match

100.0%; Score 35; DB 11; Length 7;

Best Local Similarity 100.0%; Pred. No. 7e+05;

Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 DRSNLTR 7

Db 1 DRSNLTR 7

Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 DRSNLTR 7
Db 1 DRSNLTR 7

RESULT 122

US-09-989-994-3898
; Sequence 3898, Application US/09989994
; Publication No. US20030104526A1
; GENERAL INFORMATION:
; APPLICANT: LIU, Qiang
; TITLE OF INVENTION: POSITION DEPENDENT RECOGNITION OF GNN NUCLEOTIDE
; FILE REFERENCE: 8325-0011.20 / S11-US2
; CURRENT APPLICATION NUMBER: US/09/989,994
; CURRENT FILING DATE: 2001-11-20
; NUMBER OF SEQ ID NOS: 4085
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 3898
; LENGTH: 7
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: example ZFP
US-09-989-994-3898

Query Match 100.0%; Score 35; DB 11; Length 7;
Best Local Similarity 100.0%; Pred. No. 7e+05;
Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 DRSNLTR 7
Db 1 DRSNLTR 7

RESULT 123

US-09-989-994-3899
; Sequence 3899, Application US/09989994
; Publication No. US20030104526A1
; GENERAL INFORMATION:
; APPLICANT: LIU, Qiang
; TITLE OF INVENTION: POSITION DEPENDENT RECOGNITION OF GNN NUCLEOTIDE
; FILE REFERENCE: 8325-0011.20 / S11-US2
; CURRENT APPLICATION NUMBER: US/09/989,994
; CURRENT FILING DATE: 2001-11-20
; NUMBER OF SEQ ID NOS: 4085
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 3899
; LENGTH: 7
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: example ZFP
US-09-989-994-3899

Query Match 100.0%; Score 35; DB 11; Length 7;
Best Local Similarity 100.0%; Pred. No. 7e+05;
Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 DRSNLTR 7
Db 1 DRSNLTR 7

RESULT 124

US-09-989-994-3976
; Sequence 3976, Application US/09989994
; Publication No. US20030104526A1
; GENERAL INFORMATION:
; APPLICANT: LIU, Qiang

; TITLE OF INVENTION: POSITION DEPENDENT RECOGNITION OF GNN NUCLEOTIDE
; FILE REFERENCE: 8325-0011.20 / S11-US2
; CURRENT APPLICATION NUMBER: US/09/989,994
; CURRENT FILING DATE: 2001-11-20
; NUMBER OF SEQ ID NOS: 4085
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 3976
; LENGTH: 7
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: example ZFP
US-09-989-994-3976

Query Match 100.0%; Score 35; DB 11; Length 7;
Best Local Similarity 100.0%; Pred. No. 7e+05;
Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 DRSNLTR 7
Db 1 DRSNLTR 7

RESULT 125

US-09-989-994-3979
; Sequence 3979, Application US/09989994
; Publication No. US20030104526A1
; GENERAL INFORMATION:
; APPLICANT: LIU, Qiang
; TITLE OF INVENTION: POSITION DEPENDENT RECOGNITION OF GNN NUCLEOTIDE
; FILE REFERENCE: 8325-0011.20 / S11-US2
; CURRENT APPLICATION NUMBER: US/09/989,994
; CURRENT FILING DATE: 2001-11-20
; NUMBER OF SEQ ID NOS: 4085
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 3979
; LENGTH: 7
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: example ZFP
US-09-989-994-3979

Query Match 100.0%; Score 35; DB 11; Length 7;
Best Local Similarity 100.0%; Pred. No. 7e+05;
Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 DRSNLTR 7
Db 1 DRSNLTR 7

RESULT 126

US-10-245-415B-63
; Sequence 63, Application US/10245415B
; Publication No. US20030166141A1
; GENERAL INFORMATION:
; APPLICANT: Case, Casey Christopher
; APPLICANT: Cox III, George N.
; APPLICANT: Eisenberg, Stephen P.
; APPLICANT: Li, Qiang
; APPLICANT: Rebar, Edward J.
; TITLE OF INVENTION: REGULATION OF ENDOGENOUS GENE EXPRESSION IN CELLS
; FILE REFERENCE: 8325-0002.22 / S2-US7
; CURRENT APPLICATION NUMBER: US/10/245,415B
; CURRENT FILING DATE: 2002-09-16
; NUMBER OF SEQ ID NOS: 67
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 63
; LENGTH: 7

TYPE: PRT
ORGANISM: Artificial Sequence
FEATURE:
OTHER INFORMATION: Description of Artificial Sequence: recognition helix
US-10-245-415B-63

Query Match 100.0%; Score 35; DB 12; Length 7;
Best Local Similarity 100.0%; Pred. No. 7e+05;
Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 DRSNLTR 7
DB 1 DRSNLTR 7

RESULT 127
US-10-418-552-27
Sequence 27, Application US/10418552
Publication No. US20030233672A1
GENERAL INFORMATION:
APPLICANT: LI, Guofu
APPLICANT: LIU, Qiang
APPLICANT: JAMESON, Andrew
APPLICANT: REBAR, Edward
APPLICANT: VAN EENENNAAM, Alison
APPLICANT: VENKATRAMESH, Mylavarapu
TITLE OF INVENTION: COMPOSITION AND METHODS FOR REGULATION OF PLANT GAMMA-METHYLTRANSFERASE
FILE REFERENCE: 8325-0029 (S29-US1)
CURRENT APPLICATION NUMBER: US/10/418,552
CURRENT FILING DATE: 2003-04-17
PRIOR APPLICATION NUMBER: 60/373,488
PRIOR FILING DATE: 2002-04-17
PRIOR APPLICATION NUMBER: 60/385,992
PRIOR FILING DATE: 2002-06-04
PRIOR APPLICATION NUMBER: 60/442,470
PRIOR FILING DATE: 2003-01-24
NUMBER OF SEQ ID NOS: 172
SOFTWARE: PatentIn version 3.2
SEQ ID NO 27
LENGTH: 7
TYPE: PRT
ORGANISM: Artificial
FEATURE:
OTHER INFORMATION: AGMT1 F2
US-10-418-552-27

Query Match 100.0%; Score 35; DB 12; Length 7;
Best Local Similarity 100.0%; Pred. No. 7e+05;
Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 DRSNLTR 7
DB 1 DRSNLTR 7

RESULT 128
US-10-418-552-120
Sequence 120, Application US/10418552
Publication No. US20030233672A1
GENERAL INFORMATION:
APPLICANT: LI, Guofu
APPLICANT: LIU, Qiang
APPLICANT: JAMESON, Andrew
APPLICANT: REBAR, Edward
APPLICANT: VAN EENENNAAM, Alison
APPLICANT: VENKATRAMESH, Mylavarapu
TITLE OF INVENTION: COMPOSITION AND METHODS FOR REGULATION OF PLANT GAMMA-METHYLTRANSFERASE
FILE REFERENCE: 8325-0029 (S29-US1)
CURRENT APPLICATION NUMBER: US/10/418,552
CURRENT FILING DATE: 2003-04-17
PRIOR APPLICATION NUMBER: 60/373,488

PRIOR FILING DATE: 2002-04-17
PRIOR APPLICATION NUMBER: 60/385,992
PRIOR FILING DATE: 2002-06-04
PRIOR APPLICATION NUMBER: 60/442,470
PRIOR FILING DATE: 2003-01-24
NUMBER OF SEQ ID NOS: 172
SOFTWARE: PatentIn version 3.2
SEQ ID NO 120
LENGTH: 7
TYPE: PRT
ORGANISM: Artificial
FEATURE:
OTHER INFORMATION: CGMT10 F1
US-10-418-552-120

Query Match 100.0%; Score 35; DB 12; Length 7;
Best Local Similarity 100.0%; Pred. No. 7e+05;
Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 DRSNLTR 7
DB 1 DRSNLTR 7

RESULT 129
US-10-006-069A-36
Sequence 36, Application US/10006069A
Publication No. US20030021776A1
GENERAL INFORMATION:
APPLICANT: Rebar, Edward
APPLICANT: Jameson, Andrew
APPLICANT: Liu, Qiang
APPLICANT: Liu, Pei-Qi
APPLICANT: Wolfe, Alan
APPLICANT: Eisenberg, Stephen P.
APPLICANT: Jarvis, Eric
APPLICANT: Sangamo Biosciences, Inc.
TITLE OF INVENTION: Regulation of Angiogenesis With Zinc
FILE OF INVENTION: Finger Proteins
FILE REFERENCE: 019496-005830US
CURRENT APPLICATION NUMBER: US/10/006,069A
CURRENT FILING DATE: 2001-12-17
PRIOR APPLICATION NUMBER: US 09/733,604
PRIOR FILING DATE: 2000-12-07
PRIOR APPLICATION NUMBER: US 09/736,083
PRIOR FILING DATE: 2000-12-12
PRIOR APPLICATION NUMBER: US 09/846,033
PRIOR FILING DATE: 2001-04-30
NUMBER OF SEQ ID NOS: 252
SOFTWARE: FastSeq for Windows Version 3.0
SEQ ID NO 36
LENGTH: 7
TYPE: PRT
ORGANISM: Artificial Sequence
FEATURE:
OTHER INFORMATION: finger
US-10-006-069A-36

Query Match 100.0%; Score 35; DB 15; Length 7;
Best Local Similarity 100.0%; Pred. No. 7e+05;
Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 DRSNLTR 7
DB 1 DRSNLTR 7

RESULT 130
US-10-006-069A-55
Sequence 55, Application US/10006069A
Publication No. US20030021776A1
GENERAL INFORMATION:
APPLICANT: Rebar, Edward

APPLICANT: Jamieson, Andrew
APPLICANT: Liu, Qiang
APPLICANT: Liu, Pei-Qi
APPLICANT: Wolfe, Alan
APPLICANT: Eisenberg, Stephen P.
APPLICANT: Jarvis, Eric
APPLICANT: Sangamo Biosciences, Inc.
TITLE OF INVENTION: Regulation of Angiogenesis With Zinc
FILE REFERENCE: 019496-005830US
CURRENT APPLICATION NUMBER: US/10/006,069A
CURRENT FILING DATE: 2001-12-17
PRIOR APPLICATION NUMBER: US 09/733,604
PRIOR FILING DATE: 2000-12-07
PRIOR APPLICATION NUMBER: US 09/736,083
PRIOR FILING DATE: 2000-12-12
PRIOR APPLICATION NUMBER: US 09/846,033
PRIOR FILING DATE: 2001-04-30
NUMBER OF SEQ ID NOS: 252
SOFTWARE: FastSeq for Windows Version 3.0
SEQ ID NO 55
LENGTH: 7
TYPE: PRT
ORGANISM: Artificial Sequence
FEATURE:
OTHER INFORMATION: finger
US-10-006-069A-55

Query Match 100.0%; Score 35; DB 15; Length 7;
Best Local Similarity 100.0%; Pred. No. 7e+05;
Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 DRSNLT 7
DB 1 DRSNLT 7

RESULT 131
US-10-006-069A-56
Sequence 56, Application US/10006069A
Publication No. US20030021776A1
GENERAL INFORMATION:
APPLICANT: Rebar, Edward
APPLICANT: Jamieson, Andrew
APPLICANT: Liu, Qiang
APPLICANT: Liu, Pei-Qi
APPLICANT: Wolfe, Alan
APPLICANT: Eisenberg, Stephen P.
APPLICANT: Jarvis, Eric
APPLICANT: Sangamo Biosciences, Inc.
TITLE OF INVENTION: Regulation of Angiogenesis With Zinc
FILE REFERENCE: 019496-005830US
CURRENT APPLICATION NUMBER: US/10/006,069A
CURRENT FILING DATE: 2001-12-17
PRIOR APPLICATION NUMBER: US 09/733,604
PRIOR FILING DATE: 2000-12-07
PRIOR APPLICATION NUMBER: US 09/736,083
PRIOR FILING DATE: 2000-12-12
PRIOR APPLICATION NUMBER: US 09/846,033
PRIOR FILING DATE: 2001-04-30
NUMBER OF SEQ ID NOS: 252
SOFTWARE: FastSeq for Windows Version 3.0
SEQ ID NO 56
LENGTH: 7
TYPE: PRT
ORGANISM: Artificial Sequence
FEATURE:
OTHER INFORMATION: finger
US-10-006-069A-56

Query Match 100.0%; Score 35; DB 15; Length 7;
Best Local Similarity 100.0%; Pred. No. 7e+05;

Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
QY 1 DRSNLT 7
DB 1 DRSNLT 7

RESULT 132
US-10-006-069A-59
Sequence 59, Application US/10006069A
Publication No. US20030021776A1
GENERAL INFORMATION:
APPLICANT: Rebar, Edward
APPLICANT: Jamieson, Andrew
APPLICANT: Liu, Qiang
APPLICANT: Liu, Pei-Qi
APPLICANT: Wolfe, Alan
APPLICANT: Eisenberg, Stephen P.
APPLICANT: Jarvis, Eric
APPLICANT: Sangamo Biosciences, Inc.
TITLE OF INVENTION: Regulation of Angiogenesis With Zinc
FILE REFERENCE: 019496-005830US
CURRENT APPLICATION NUMBER: US/10/006,069A
CURRENT FILING DATE: 2001-12-17
PRIOR APPLICATION NUMBER: US 09/733,604
PRIOR FILING DATE: 2000-12-07
PRIOR APPLICATION NUMBER: US 09/736,083
PRIOR FILING DATE: 2000-12-12
PRIOR APPLICATION NUMBER: US 09/846,033
PRIOR FILING DATE: 2001-04-30
NUMBER OF SEQ ID NOS: 252
SOFTWARE: FastSeq for Windows Version 3.0
SEQ ID NO 59
LENGTH: 7
TYPE: PRT
ORGANISM: Artificial Sequence
FEATURE:
OTHER INFORMATION: finger
US-10-006-069A-59

Query Match 100.0%; Score 35; DB 15; Length 7;
Best Local Similarity 100.0%; Pred. No. 7e+05;
Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 DRSNLT 7
DB 1 DRSNLT 7

RESULT 133
US-10-006-069A-67
Sequence 67, Application US/10006069A
Publication No. US20030021776A1
GENERAL INFORMATION:
APPLICANT: Rebar, Edward
APPLICANT: Jamieson, Andrew
APPLICANT: Liu, Qiang
APPLICANT: Liu, Pei-Qi
APPLICANT: Wolfe, Alan
APPLICANT: Eisenberg, Stephen P.
APPLICANT: Jarvis, Eric
APPLICANT: Sangamo Biosciences, Inc.
TITLE OF INVENTION: Regulation of Angiogenesis With Zinc
FILE REFERENCE: 019496-005830US
CURRENT APPLICATION NUMBER: US/10/006,069A
CURRENT FILING DATE: 2001-12-17
PRIOR APPLICATION NUMBER: US 09/733,604
PRIOR FILING DATE: 2000-12-07
PRIOR APPLICATION NUMBER: US 09/736,083
PRIOR FILING DATE: 2000-12-12
PRIOR APPLICATION NUMBER: US 09/846,033

```

; PRIOR FILING DATE: 2001-04-30
; NUMBER OF SEQ ID NOS: 252
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 67
; LENGTH: 7
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: finger
US-10-006-069A-67

Query Match          100.0%; Score 35; DB 15; Length 7;
Best Local Similarity 100.0%; Pred. No. 7e+05;
Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 DRSNLTR 7
Db 1 DRSNLTR 7

RESULT 134
US-10-006-069A-134
; Sequence 134, Application US/10006069A
; Publication No. US20030021776A1
; GENERAL INFORMATION:
; APPLICANT: Rebar, Edward
; APPLICANT: Jamieson, Andrew
; APPLICANT: Liu, Qiang
; APPLICANT: Liu, Pei-Qi
; APPLICANT: Wolfe, Alan
; APPLICANT: Eisenberg, Stephen P.
; APPLICANT: Jarvis, Eric
; APPLICANT: Sangamo Biosciences, Inc.
; TITLE OF INVENTION: Regulation of Angiogenesis with Zinc
; FILE REFERENCE: 019496-005830US
; CURRENT APPLICATION NUMBER: US/10/006,069A
; CURRENT FILING DATE: 2001-12-17
; PRIOR FILING DATE: 2000-12-07
; PRIOR FILING DATE: 2000-12-07
; PRIOR FILING DATE: 2000-12-07
; PRIOR FILING DATE: 2000-12-12
; PRIOR FILING DATE: 2000-12-12
; PRIOR FILING DATE: 2001-04-30
; NUMBER OF SEQ ID NOS: 252
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 134
; LENGTH: 7
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: finger
US-10-006-069A-134

Query Match          100.0%; Score 35; DB 15; Length 7;
Best Local Similarity 100.0%; Pred. No. 7e+05;
Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 DRSNLTR 7
Db 1 DRSNLTR 7

RESULT 135
US-10-006-069A-167
; Sequence 167, Application US/10006069A
; Publication No. US20030021776A1
; GENERAL INFORMATION:
; APPLICANT: Rebar, Edward
; APPLICANT: Jamieson, Andrew
; APPLICANT: Liu, Qiang
; APPLICANT: Liu, Pei-Qi
; APPLICANT: Wolfe, Alan
; APPLICANT: Eisenberg, Stephen P.
; APPLICANT: Jarvis, Eric
; APPLICANT: Sangamo Biosciences, Inc.
; TITLE OF INVENTION: Regulation of Angiogenesis with Zinc
; FILE REFERENCE: 019496-005830US
; CURRENT APPLICATION NUMBER: US/10/006,069A
; CURRENT FILING DATE: 2001-12-17
; PRIOR FILING DATE: 2000-12-07
; PRIOR FILING DATE: 2000-12-07
; PRIOR FILING DATE: 2000-12-07
; PRIOR FILING DATE: 2000-12-12
; PRIOR FILING DATE: 2000-12-12
; PRIOR FILING DATE: 2001-04-30
; NUMBER OF SEQ ID NOS: 252
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 167
; LENGTH: 7
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: finger
US-10-006-069A-167

Query Match          100.0%; Score 35; DB 15; Length 7;
Best Local Similarity 100.0%; Pred. No. 7e+05;
Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 DRSNLTR 7
Db 1 DRSNLTR 7
```

```

; APPLICANT: Eisenberg, Stephen P.
; APPLICANT: Jarvis, Eric
; APPLICANT: Sangamo Biosciences, Inc.
; TITLE OF INVENTION: Regulation of Angiogenesis with Zinc
; FILE REFERENCE: 019496-005830US
; CURRENT APPLICATION NUMBER: US/10/006,069A
; CURRENT FILING DATE: 2001-12-17
; PRIOR FILING DATE: 2000-12-07
; PRIOR FILING DATE: 2000-12-07
; PRIOR FILING DATE: 2000-12-07
; PRIOR FILING DATE: 2000-12-12
; PRIOR FILING DATE: 2000-12-12
; PRIOR FILING DATE: 2001-04-30
; NUMBER OF SEQ ID NOS: 252
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 167
; LENGTH: 7
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: finger
US-10-006-069A-167

Query Match          100.0%; Score 35; DB 15; Length 7;
Best Local Similarity 100.0%; Pred. No. 7e+05;
Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 DRSNLTR 7
Db 1 DRSNLTR 7

RESULT 136
US-10-006-069A-170
; Sequence 170, Application US/10006069A
; Publication No. US20030021776A1
; GENERAL INFORMATION:
; APPLICANT: Rebar, Edward
; APPLICANT: Jamieson, Andrew
; APPLICANT: Liu, Qiang
; APPLICANT: Liu, Pei-Qi
; APPLICANT: Wolfe, Alan
; APPLICANT: Eisenberg, Stephen P.
; APPLICANT: Jarvis, Eric
; APPLICANT: Sangamo Biosciences, Inc.
; TITLE OF INVENTION: Regulation of Angiogenesis with Zinc
; FILE REFERENCE: 019496-005830US
; CURRENT APPLICATION NUMBER: US/10/006,069A
; CURRENT FILING DATE: 2001-12-17
; PRIOR FILING DATE: 2000-12-07
; PRIOR FILING DATE: 2000-12-07
; PRIOR FILING DATE: 2000-12-07
; PRIOR FILING DATE: 2000-12-12
; PRIOR FILING DATE: 2000-12-12
; PRIOR FILING DATE: 2001-04-30
; NUMBER OF SEQ ID NOS: 252
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 170
; LENGTH: 7
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: finger
US-10-006-069A-170

Query Match          100.0%; Score 35; DB 15; Length 7;
Best Local Similarity 100.0%; Pred. No. 7e+05;
Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 DRSNLTR 7
Db 1 DRSNLTR 7
```

DB 1 DRSNLTR 7

RESULT 137

US-10-006-069A-196
; Sequence 196, Application US/10006069A
; Publication No. US2003002176A1

GENERAL INFORMATION:

APPLICANT: Rebar, Edward

APPLICANT: Jamieson, Andrew

APPLICANT: Liu, Qiang

APPLICANT: Liu, Pei-Qi

APPLICANT: Wolfte, Alan

APPLICANT: Eisenberg, Stephen P.

APPLICANT: Jarvis, Eric

APPLICANT: Sangamo Biosciences, Inc.

TITLE OF INVENTION: Regulation of Angiogenesis With Zinc

FILE REFERENCE: 019496-005830US

CURRENT FILING DATE: 2001-12-17

PRIOR FILING DATE: 2000-12-07

PRIOR APPLICATION NUMBER: US 09/733,604

PRIOR FILING DATE: 2000-12-12

PRIOR APPLICATION NUMBER: US 09/846,033

NUMBER OF SEQ ID NOS: 252

SOFTWARE: FastSeq for Windows Version 3.0

SEQ ID NO 196

LENGTH: 7

TYPE: PRT

ORGANISM: Artificial Sequence

FEATURE:

OTHER INFORMATION: recognition helix

US-10-006-069A-196

Query Match

Best Local Similarity 100.0%; Score 35; DB 15; Length 7;

Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 DRSNLTR 7

DB 1 DRSNLTR 7

RESULT 138

US-10-006-069A-198

; Sequence 198, Application US/10006069A

; Publication No. US2003002176A1

GENERAL INFORMATION:

QY 1 DRSNLTR 7

DB 1 DRSNLTR 7

RESULT 140

US-10-055-711-41

; Sequence 41, Application US/10055711

; Publication No. US20030108860A1

GENERAL INFORMATION:

APPLICANT: Rebar, Edward

APPLICANT: JAMIESON, Andrew

TITLE OF INVENTION: MODIFIED ZINC FINGER BINDING PROTEINS

FILE REFERENCE: 8325-0025

CURRENT FILING DATE: 2002-09-10

NUMBER OF SEQ ID NOS: 147

SOFTWARE: PatentIn Ver. 2.0

SEQ ID NO 41

LENGTH: 7

QY 1 DRSNLTR 7

DB 1 DRSNLTR 7

RESULT 139

US-10-055-713-37

; Sequence 37, Application US/10055713

; Publication No. US20030044957A1

GENERAL INFORMATION:

APPLICANT: LI, Guofu

APPLICANT: JAMIESON, Andrew

TITLE OF INVENTION: ZINC FINGER PROTEINS FOR DNA BINDING AND GENE

FILE REFERENCE: 8325-0026 / S26-US1

CURRENT FILING DATE: 2002-06-17

PRIOR APPLICATION NUMBER: US/10/055,713

PRIOR FILING DATE: 2001-01-22

PRIOR APPLICATION NUMBER: 60/263,445

PRIOR FILING DATE: 2001-05-11

QY 1 DRSNLTR 7

DB 1 DRSNLTR 7

RESULT 139

US-10-055-713-37

; Sequence 37, Application US/10055713

; Publication No. US20030044957A1

GENERAL INFORMATION:

APPLICANT: LI, Guofu

APPLICANT: JAMIESON, Andrew

TITLE OF INVENTION: ZINC FINGER PROTEINS FOR DNA BINDING AND GENE

FILE REFERENCE: 8325-0026 / S26-US1

CURRENT FILING DATE: 2002-06-17

PRIOR APPLICATION NUMBER: US/10/055,713

PRIOR FILING DATE: 2001-01-22

PRIOR APPLICATION NUMBER: 60/263,445

PRIOR FILING DATE: 2001-05-11

QY 1 DRSNLTR 7

DB 1 DRSNLTR 7

RESULT 139

US-10-055-713-37

; Sequence 37, Application US/10055713

; Publication No. US20030044957A1

GENERAL INFORMATION:

APPLICANT: LI, Guofu

APPLICANT: JAMIESON, Andrew

TITLE OF INVENTION: ZINC FINGER PROTEINS FOR DNA BINDING AND GENE

FILE REFERENCE: 8325-0026 / S26-US1

CURRENT FILING DATE: 2002-06-17

PRIOR APPLICATION NUMBER: US/10/055,713

PRIOR FILING DATE: 2001-01-22

PRIOR APPLICATION NUMBER: 60/263,445

PRIOR FILING DATE: 2001-05-11

QY 1 DRSNLTR 7

DB 1 DRSNLTR 7

RESULT 139

US-10-055-713-37

; Sequence 37, Application US/10055713

; Publication No. US20030044957A1

GENERAL INFORMATION:

APPLICANT: LI, Guofu

APPLICANT: JAMIESON, Andrew

TITLE OF INVENTION: ZINC FINGER PROTEINS FOR DNA BINDING AND GENE

FILE REFERENCE: 8325-0026 / S26-US1

CURRENT FILING DATE: 2002-06-17

PRIOR APPLICATION NUMBER: US/10/055,713

PRIOR FILING DATE: 2001-01-22

PRIOR APPLICATION NUMBER: 60/263,445

PRIOR FILING DATE: 2001-05-11

Best Local Similarity 100.0%; Pred. No. 7e+05;
Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 DRSNLTR 7
|||||
Db 1 DRSNLTR 7

Search completed: February 23, 2004, 11:47:32
Job time : 28 secs

GenCore version 5.1.6
Copyright (c) 1993 - 2004 Compugen Ltd.

OM protein - protein search, using sw model

Run on: February 23, 2004, 11:37:34 ; Search time 11.6667 Seconds
(without alignments)
57.701 Million cell updates/sec

Title: US-09-989-994-395

Perfect score: 35
Sequence: 1 DRSNLTR 7

Scoring table: BLOSUM62
Gapop 10.0 , Gapext 0.5

Searched: 283308 seqs, 96168682 residues

Total number of hits satisfying chosen parameters: 0

Minimum DB seq length: 0
Maximum DB seq length: 200000000

Post-processing: Minimum Match 100%
Maximum Match 100%
Listing first 2000 summaries

Database :

PIR 76: *
1: p1r1: *
2: p1r2: *
3: p1r3: *
4: p1r4: *

Pred. No. is the number of results predicted by chance to have a
score greater than or equal to the score of the result being printed,
and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Query Match	ID	Description
---------------	----------------	----	-------------

No matches found

Search completed: February 23, 2004, 11:45:05
Job time : 11.6667 secs

GenCore version 5.1.6
Copyright (c) 1993 - 2004 CompuGen Ltd.

OM protein - protein search, using sw model

Run on: February 23, 2004, 11:35:04 / Search time 7.66667 Seconds
(without alignments)
42.937 Million cell updates/sec

Title: US-09-989-994-395
Perfect score: 35
Sequence: 1 DRSNLTR 7

Scoring table: BLOSUM62
Gapop 10.0 , Gapext 0.5

Searched: 127863 seqs, 47026705 residues

Total number of hits satisfying chosen parameters: 0

Minimum DB seq length: 0
Maximum DB seq length: 2000000000

Post-processing: Minimum Match 100%
Maximum Match 100%
Listing first 2000 summaries

Database : SwissProt_41:*

Pred. No. is the number of results predicted by chance to have a
score greater than or equal to the score of the result being printed,
and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	ID	Description

No matches found					

Search completed: February 23, 2004, 11:42:41
Job time : 7.66667 secs

GenCore version 5.1.6
Copyright (c) 1993 - 2004 CompuGen Ltd.

OM protein - protein search, using sw model

Run on: February 23, 2004, 11:36:14 ; Search time 27.6667 Seconds
(without alignments)
65.290 Million cell updates/sec

Title: US-09-989-994-395

Perfect score: 35
Sequence: 1 DRSNLTR 7

Scoring table: BLOSUM62
Gapop 10.0 , Gapext 0.5

Searched: 830525 seqs, 258052604 residues

Total number of hits satisfying chosen parameters: 0

Minimum DB seq length: 0
Maximum DB seq length: 2000000000

Post-processing: Minimum Match 100%
Maximum Match 100%
Listing first 2000 summaries

Database :

SPTREMBL_23:*

- 1: sp_archaea:*
- 2: sp_bacteria:*
- 3: sp_fungi:*
- 4: sp_human:*
- 5: sp_invertebrate:*
- 6: sp_mammal:*
- 7: sp_mhc:*
- 8: sp_organelle:*
- 9: sp_phage:*
- 10: sp_plant:*
- 11: sp_rodent:*
- 12: sp_virus:*
- 13: sp_vertebrate:*
- 14: sp_unclassified:*
- 15: sp_virus:*
- 16: sp_bacteriap:*
- 17: sp_archaeap:*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	ID	Description
------------	-------	-------------	--------	----	-------------

No matches found

Search completed: February 23, 2004, 11:44:17
Job time : 27.6667 secs

GenCore version 5.1.6
Copyright (c) 1993 - 2004 CompuGen Ltd.

CM protein - protein search, using sw model

Run on: February 23, 2004, 11:32:14 : Search time 35 Seconds

(Without alignments)
31.745 Million cell updates/sec

Title: US-09-989-994-229
Perfect score: 36
Sequence: 1 RSDHLR 7

Scoring table: BLOSUM62
Gapop 10.0, Gapext 0.5

Searched: 1107863 seqs, 158726573 residues

Total number of hits satisfying chosen parameters: 162

Minimum DB seq length: 0
Maximum DB seq length: 200000000

Post-processing: Minimum Match 100%
Maximum Match 100%

Listing first 2000 summaries

Database :

A_Geneseq_19Jun03.*
1: /SIDSI/gcgdata/geneseq/geneseq-emb1/AA1980.DAT:*
2: /SIDSI/gcgdata/geneseq/geneseq-emb1/AA1981.DAT:*
3: /SIDSI/gcgdata/geneseq/geneseq-emb1/AA1982.DAT:*
4: /SIDSI/gcgdata/geneseq/geneseq-emb1/AA1983.DAT:*
5: /SIDSI/gcgdata/geneseq/geneseq-emb1/AA1984.DAT:*
6: /SIDSI/gcgdata/geneseq/geneseq-emb1/AA1985.DAT:*
7: /SIDSI/gcgdata/geneseq/geneseq-emb1/AA1986.DAT:*
8: /SIDSI/gcgdata/geneseq/geneseq-emb1/AA1987.DAT:*
9: /SIDSI/gcgdata/geneseq/geneseq-emb1/AA1988.DAT:*
10: /SIDSI/gcgdata/geneseq/geneseq-emb1/AA1989.DAT:*
11: /SIDSI/gcgdata/geneseq/geneseq-emb1/AA1990.DAT:*
12: /SIDSI/gcgdata/geneseq/geneseq-emb1/AA1991.DAT:*
13: /SIDSI/gcgdata/geneseq/geneseq-emb1/AA1992.DAT:*
14: /SIDSI/gcgdata/geneseq/geneseq-emb1/AA1993.DAT:*
15: /SIDSI/gcgdata/geneseq/geneseq-emb1/AA1994.DAT:*
16: /SIDSI/gcgdata/geneseq/geneseq-emb1/AA1995.DAT:*
17: /SIDSI/gcgdata/geneseq/geneseq-emb1/AA1996.DAT:*
18: /SIDSI/gcgdata/geneseq/geneseq-emb1/AA1997.DAT:*
19: /SIDSI/gcgdata/geneseq/geneseq-emb1/AA1998.DAT:*
20: /SIDSI/gcgdata/geneseq/geneseq-emb1/AA1999.DAT:*
21: /SIDSI/gcgdata/geneseq/geneseq-emb1/AA2000.DAT:*
22: /SIDSI/gcgdata/geneseq/geneseq-emb1/AA2001.DAT:*
23: /SIDSI/gcgdata/geneseq/geneseq-emb1/AA2002.DAT:*
24: /SIDSI/gcgdata/geneseq/geneseq-emb1/AA2003.DAT:*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	DB ID	Description
1	36	100.0	7	22	AA08729
2	36	100.0	7	22	AA084235
3	36	100.0	7	22	AA084247
4	36	100.0	7	23	AA022249
5	36	100.0	7	23	AB083563
6	36	100.0	7	23	ABJ03821
7	36	100.0	7	23	ABJ03825
8	36	100.0	7	23	ABJ03848
9	36	100.0	7	23	ABJ03858

10	36	100.0	7	23	ABJ03859	Human VEGF-targete
11	36	100.0	7	23	ABJ03860	Human VEGF-targete
12	36	100.0	7	23	ABJ03861	Human VEGF-targete
13	36	100.0	7	23	ABJ03862	Human VEGF-targete
14	36	100.0	7	23	ABJ03863	Human VEGF-targete
15	36	100.0	7	23	ABJ03866	Human VEGF-targete
16	36	100.0	7	23	ABJ03868	Human VEGF-targete
17	36	100.0	7	23	ABJ03870	Human VEGF-targete
18	36	100.0	7	23	ABJ03871	Human VEGF-targete
19	36	100.0	7	23	ABJ03873	Human VEGF-targete
20	36	100.0	7	23	ABJ03897	Human VEGF-targete
21	36	100.0	7	23	ABJ03906	Human VEGF-targete
22	36	100.0	7	23	ABJ03912	Human VEGF-targete
23	36	100.0	7	23	ABJ03915	Human VEGF-targete
24	36	100.0	7	23	ABJ03917	Human VEGF-targete
25	36	100.0	7	23	ABJ03920	Human VEGF-targete
26	36	100.0	7	23	ABJ03939	Rat VEGF-targeted
27	36	100.0	7	23	ABJ08089	Human ER-alpha loc
28	36	100.0	7	23	ABJ08081	Human ER-alpha loc
29	36	100.0	7	23	ABJ08015	Zinc finger protei
30	36	100.0	7	23	ABJ08015	Zinc finger protei
31	36	100.0	7	23	ABJ08036	Zinc finger protei
32	36	100.0	7	23	ABJ08048	Zinc finger protei
33	36	100.0	7	23	ABJ08063	Zinc finger protei
34	36	100.0	7	23	ABJ08205	Zinc finger protei
35	36	100.0	7	23	ABJ08208	Zinc finger protei
36	36	100.0	7	23	ABJ08232	Zinc finger protei
37	36	100.0	7	23	ABJ08232	Zinc finger protei
38	36	100.0	7	23	ABJ08235	Zinc finger protei
39	36	100.0	7	23	ABJ08250	Zinc finger protei
40	36	100.0	7	23	ABJ08259	Zinc finger protei
41	36	100.0	7	23	ABJ08464	Zinc finger protei
42	36	100.0	7	23	ABJ08485	Zinc finger protei
43	36	100.0	7	23	ABJ08487	Zinc finger protei
44	36	100.0	7	23	ABJ08487	Zinc finger protei
45	36	100.0	7	23	ABJ08487	Zinc finger protei
46	36	100.0	7	23	ABJ08487	Zinc finger protei
47	36	100.0	7	23	ABJ08487	Zinc finger protei
48	36	100.0	7	23	ABJ08487	Zinc finger protei
49	36	100.0	7	23	ABJ08487	Zinc finger protei
50	36	100.0	7	23	ABJ08487	Zinc finger protei
51	36	100.0	7	23	ABJ08487	Zinc finger protei
52	36	100.0	7	23	ABJ08487	Zinc finger protei
53	36	100.0	7	23	ABJ08487	Zinc finger protei
54	36	100.0	7	23	ABJ08487	Zinc finger protei
55	36	100.0	7	23	ABJ08487	Zinc finger protei
56	36	100.0	7	23	ABJ08487	Zinc finger protei
57	36	100.0	7	23	ABJ08487	Zinc finger protei
58	36	100.0	7	23	ABJ08487	Zinc finger protei
59	36	100.0	7	23	ABJ08487	Zinc finger protei
60	36	100.0	7	23	ABJ08487	Zinc finger protei
61	36	100.0	7	23	ABJ08487	Zinc finger protei
62	36	100.0	7	23	ABJ08487	Zinc finger protei
63	36	100.0	7	23	ABJ08487	Zinc finger protei
64	36	100.0	7	23	ABJ08487	Zinc finger protei
65	36	100.0	7	23	ABJ08487	Zinc finger protei
66	36	100.0	7	23	ABJ08487	Zinc finger protei
67	36	100.0	7	23	ABJ08487	Zinc finger protei
68	36	100.0	7	23	ABJ08487	Zinc finger protei
69	36	100.0	7	23	ABJ08487	Zinc finger protei
70	36	100.0	7	23	ABJ08487	Zinc finger protei
71	36	100.0	7	23	ABJ08487	Zinc finger protei
72	36	100.0	7	23	ABJ08487	Zinc finger protei
73	36	100.0	7	23	ABJ08487	Zinc finger protei
74	36	100.0	7	23	ABJ08487	Zinc finger protei
75	36	100.0	7	23	ABJ08487	Zinc finger protei
76	36	100.0	7	23	ABJ08487	Zinc finger protei
77	36	100.0	7	23	ABJ08487	Zinc finger protei
78	36	100.0	7	23	ABJ08487	Zinc finger protei
79	36	100.0	7	23	ABJ08487	Zinc finger protei
80	36	100.0	7	23	ABJ08487	Zinc finger protei
81	36	100.0	7	23	ABJ08487	Zinc finger protei
82	36	100.0	7	23	ABJ08487	Zinc finger protei

83	36	100.0	7	23	ABP49603	Zinc finger protei
84	36	100.0	7	23	ABP49612	Zinc finger protei
85	36	100.0	7	23	ABP49615	Zinc finger protei
86	36	100.0	7	23	ABP49621	Zinc finger protei
87	36	100.0	7	23	ABP49621	Zinc finger protei
88	36	100.0	7	23	ABP49904	Zinc finger protei
89	36	100.0	7	23	ABP49907	Zinc finger protei
90	36	100.0	7	23	ABP49988	Zinc finger protei
91	36	100.0	7	23	ABP50011	Zinc finger protei
92	36	100.0	7	23	ABP50014	Zinc finger protei
93	36	100.0	7	23	ABP50016	Zinc finger protei
94	36	100.0	7	23	ABP50019	Zinc finger protei
95	36	100.0	7	23	ABP50033	Zinc finger protei
96	36	100.0	7	23	ABP50036	Zinc finger protei
97	36	100.0	7	23	ABP50039	Zinc finger protei
98	36	100.0	7	23	ABP50072	Zinc finger protei
99	36	100.0	7	23	ABP50075	Zinc finger protei
100	36	100.0	7	23	ABP50108	Zinc finger protei
101	36	100.0	7	23	ABP50111	Zinc finger protei
102	36	100.0	7	23	ABP50128	Zinc finger protei
103	36	100.0	7	23	ABP50129	Zinc finger protei
104	36	100.0	7	23	ABP50131	Zinc finger protei
105	36	100.0	7	23	ABP50132	Zinc finger protei
106	36	100.0	7	23	ABP50138	Zinc finger protei
107	36	100.0	7	23	ABP50151	Zinc finger protei
108	36	100.0	7	23	ABP50180	Zinc finger protei
109	36	100.0	7	23	ABP50183	Zinc finger protei
110	36	100.0	7	23	ABP50285	Zinc finger protei
111	36	100.0	7	23	ABP50288	Zinc finger protei
112	36	100.0	7	23	ABP50385	Zinc finger protei
113	36	100.0	7	23	ABP50388	Zinc finger protei
114	36	100.0	7	23	ABP50526	Zinc finger protei
115	36	100.0	7	23	ABP50564	Zinc finger protei
116	36	100.0	7	23	ABP50570	Zinc finger protei
117	36	100.0	7	23	ABP50573	Zinc finger protei
118	36	100.0	7	23	ABP50606	Zinc finger protei
119	36	100.0	7	23	ABP50609	Zinc finger protei
120	36	100.0	7	23	ABP50612	Zinc finger protei
121	36	100.0	7	23	ABP50741	Zinc finger protei
122	36	100.0	7	23	ABP50744	Zinc finger protei
123	36	100.0	7	23	ABP50807	Zinc finger protei
124	36	100.0	7	23	ABP50810	Zinc finger protei
125	36	100.0	7	23	ABP50834	Zinc finger protei
126	36	100.0	7	23	ABP50840	Zinc finger protei
127	36	100.0	7	23	ABP50852	Zinc finger protei
128	36	100.0	7	23	ABP50970	Zinc finger protei
129	36	100.0	7	23	ABP50973	Zinc finger protei
130	36	100.0	7	23	ABP50982	Zinc finger protei
131	36	100.0	7	23	ABP50985	Zinc finger protei
132	36	100.0	7	23	ABP51017	Zinc finger protei
133	36	100.0	7	23	ABP51020	Zinc finger protei
134	36	100.0	7	23	ABP51045	Zinc finger protei
135	36	100.0	7	23	ABP51057	Zinc finger protei
136	36	100.0	7	23	ABP51117	Zinc finger protei
137	36	100.0	7	23	ABP51161	Zinc finger protei
138	36	100.0	7	23	ABP51168	Zinc finger protei
139	36	100.0	7	23	ABP51182	Zinc finger protei
140	36	100.0	7	23	ABP47804	Zinc finger protei
141	36	100.0	7	23	ABP47810	Zinc finger protei
142	36	100.0	7	23	ABP07127	Zinc finger protei
143	36	100.0	7	23	ABG75734	Zinc finger protei
144	36	100.0	7	24	ABG75746	Zinc finger protei
145	36	100.0	7	24	AA304050	Zinc finger protei
146	36	100.0	99	21	AA07699	Zinc finger protei
147	36	100.0	99	22	AA08712	Zinc finger protei
148	36	100.0	99	23	AA21124	Zinc finger protei
149	36	100.0	99	23	AA21125	Zinc finger protei
150	36	100.0	99	23	AA21126	Zinc finger protei
151	36	100.0	99	23	AA21127	Zinc finger protei
152	36	100.0	99	23	AA21128	Zinc finger protei
153	36	100.0	99	23	AA21129	Zinc finger protei
154	36	100.0	99	23	AA21130	Zinc finger protei
155	36	100.0	99	23	AB307131	Human Veg 1 domain

ALIGNMENTS

156	36	100.0	99	24	ABG74226	Zinc finger protei
157	36	100.0	196	21	AA07701	Zinc finger protei
158	36	100.0	196	22	AA08714	Human ZFP-vascular
159	36	100.0	196	23	AA21123	5 finger protein u
160	36	100.0	196	23	AA21136	6 finger zinc fing
161	36	100.0	196	24	ABG74228	6 finger-ZFP VEGF3
162	36	100.0	1387	21	AA95441	Caenorhabditis ele

ALIGNMENTS

RESULT 1
AAE08729
ID AAE08729 standard; peptide; 7 AA.
XX
XX
AC AAE08729;
XX
DT 15-NOV-2001 (first entry)
XX
DE Human KCa4 protein F3 recognition helix.
XX
KW Human; KCa4; EPO; molecular target; zinc finger protein; ZFP;
XX cellular process; signal transduction; drug-screening.
XX
OS Homo sapiens.
XX
PN WO200159450-A2.
XX
PD 16-AUG-2001.
XX
PF 08-FEB-2001; 2001WO-US04301.
XX
PR 08-FEB-2000; 2000US-0181117.
XX
PA (SANG-) SANGAMO BIOSCIENCES INC.
XX
PI Case C;
XX
DR WPI; 2001-522491/57.
XX
PT Screening compound for interaction with molecular target by contacting
PT compound with cells, comprising exogenous zinc finger protein that
PT modulates expression of target, and determining values of properties of
PT cells
XX
PS Example 10; Page 73; 99pp; English.
XX
CC The invention relates to a method of screening a compound for interaction
CC with a molecular target. The method involves contacting first and
CC second cells with the compound and determining the values of properties
CC of the compound. The second cell comprises an exogenous zinc finger
CC protein (ZFP) that modulates the expression of the molecular target, or
CC isolating membranes from cell comprising ZFP. The methods allow for high
CC throughput screening of candidate compound and reduces the incidence of
CC false positives. The methods are useful for screening a compound for
CC interaction with a molecular target or for screening a compound for its
CC effect on a cellular process. The method is useful for testing a compound
CC for its capacity to transduce a signal to the molecular target or its
CC capacity to block transduction of a signal through the molecular target,
CC and for performing biochemical drug-screening assays. The present
CC sequence is human KCa4 protein recognition helix used in the
CC exemplification of the invention.
XX
SQ Sequence 7 AA;
XX
Query Match 100.0%; Score 36; DB 22; Length 7;
Best Local Similarity 100.0%; Pred. No. 9.3e+05;
Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
1 RSDHLSR 7
1 RSDHLSR 7
1 RSDHLSR 7

RESULT 2
AAB84235
ID AAB84235 standard; peptide, 7 AA.
XX
AC AAB84235;
XX
DT 06-AUG-2001 (first entry)
XX
DE Zinc protein recognition helix SBS3 for target DNA triplet GGG.
XX
KM Phenotype associated gene; zinc finger protein; cancer; nephritis;
XX prostatic hypertrophy; hematopoiesis; osteoporosis; obesity;
XX cardiovascular disease; diabetes.
OS Synthetic.
XX
PM WO200140798-A2.
XX
PD 07-JUN-2001.
XX
PF 06-DEC-2000; 2000WO-US33086.
XX
PR 06-DEC-1999; 99US-0456100.
XX
PA (SANG-) SANGAMO BIOSCIENCES INC.
XX
PI Case CC, Liu Q, Rebar EJ;
XX
DR WPI; 2001-374953/39.
XX
PT Identifying genes associated with selected phenotype for research
XX purposes, involves culturing cells transduced with nucleic acid
XX encoding zinc finger proteins and assaying cells exhibiting selected
XX phenotype -
XX
PS Example 1; Page 36; 58pp; English.
XX
CC The specification describes a method for identifying genes associated
XX with a selected phenotype. The method involves providing a library of
XX nucleotide sequences encoding partially randomized zinc finger proteins,
XX transducing cells with expression vectors, each comprising a sequence
XX from the library, culturing the cells for expressing the zinc finger
XX protein, assaying the cells for selected phenotype, and identifying the
XX gene of interest, in cells exhibiting the phenotype. The method is useful
XX for identifying a gene or genes associated with a selected phenotype such
XX as the one related to cancer, nephritis, prostatic hypertrophy,
XX hematopoiesis, osteoporosis, obesity, cardiovascular disease or diabetes.
XX The method is useful in academic laboratories, in the biotechnological
XX industries, and in pharmaceutical, genomic, agricultural and chemical
XX companies. AAB84233-44 represent recognition helices of zinc finger
XX proteins, which recognise different DNA triplets.
SQ Sequence 7 AA;
XX
Query Match 100.0%; Score 36; DB 22; Length 7;
Best Local Similarity 100.0%; Pred. No. 9.3e+05;
Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 RSDHLR 7
DB 1 RSDHLR 7

RESULT 3
AAB84247
ID AAB84247 standard; peptide, 7 AA.
XX
AC AAB84247;
XX
DT 06-AUG-2001 (first entry)
XX

DE Amino acid sequence of finger 3 of a zinc finger protein.
XX
KM Phenotype associated gene; zinc finger protein; cancer; nephritis;
XX prostatic hypertrophy; hematopoiesis; osteoporosis; obesity;
XX cardiovascular disease; diabetes.
OS Synthetic.
XX
PM WO200140798-A2.
XX
PD 07-JUN-2001.
XX
PF 06-DEC-2000; 2000WO-US33086.
XX
PR 06-DEC-1999; 99US-0456100.
XX
PA (SANG-) SANGAMO BIOSCIENCES INC.
XX
PI Case CC, Liu Q, Rebar EJ;
XX
DR WPI; 2001-374953/39.
XX
PT Identifying genes associated with selected phenotype for research
XX purposes, involves culturing cells transduced with nucleic acid
XX encoding zinc finger proteins and assaying cells exhibiting selected
XX phenotype -
XX
PS Example 1; Page 41; 58pp; English.
XX
CC The specification describes a method for identifying genes associated
XX with a selected phenotype. The method involves providing a library of
XX nucleotide sequences encoding partially randomized zinc finger proteins,
XX transducing cells with expression vectors, each comprising a sequence
XX from the library, culturing the cells for expressing the zinc finger
XX protein, assaying the cells for selected phenotype, and identifying the
XX gene of interest, in cells exhibiting the phenotype. The method is useful
XX for identifying a gene or genes associated with a selected phenotype such
XX as the one related to cancer, nephritis, prostatic hypertrophy,
XX hematopoiesis, osteoporosis, obesity, cardiovascular disease or diabetes.
XX The method is useful in academic laboratories, in the biotechnological
XX industries, and in pharmaceutical, genomic, agricultural and chemical
XX companies. The present sequence represents a finger of a zinc finger
XX protein.
SQ Sequence 7 AA;
XX
Query Match 100.0%; Score 36; DB 22; Length 7;
Best Local Similarity 100.0%; Pred. No. 9.3e+05;
Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 RSDHLR 7
DB 1 RSDHLR 7

RESULT 4
AAO22249
ID AAO22249 standard; peptide, 7 AA.
XX
AC AAO22249;
XX
DT 11-OCT-2002 (first entry)
XX
DE Zinc finger protein #7F3 peptide SEQ ID No 66.
XX
KM Non-canonical zinc finger binding protein; ZFP; gene therapy.
XX
OS Arabidopsis thaliana.
XX
PM WO200257293-A2.
XX
PD 25-JUL-2002.
XX

PF 22-JAN-2002; 2002MO-US01893.
 XX
 XX 22-JAN-2001; 2001US-263445P.
 PR 11-MAY-2001; 2001US-290716P.
 XX
 PA (SANG-) SANGAMO BIOSCIENCES INC.
 XX
 XX Rebar E, Jamieson A;
 DR WPI; 2002-566791/60.
 XX
 PT Non-canonical zinc finger binding protein for modulating gene
 PT expression comprises non-canonical zinc finger components that bind to
 PT a target sequence -
 XX
 XX Example 7; Page 51; 63pp; English.
 XX
 CC The invention relates to an isolated, non-canonical (e.g., non-C2H2) zinc
 CC finger binding protein (ZFP) comprising one or more non-canonical zinc
 CC finger components that bind to a target sequence. A fusion polypeptide of
 CC the invention is useful for modulating expression of a gene. The non-
 CC canonical ZFP and its encoding polynucleotide, and a fusion protein
 CC comprising the non-canonical ZFP and its encoding polynucleotide can be
 CC used to treat disease. The non-canonical ZFP can be used in diagnostic
 CC assays and to link phenotype to expression of particular genes. The
 CC polynucleotide encoding the non-canonical ZFP can be used to treat
 CC disorders by gene therapy. This sequence represents a peptide relating to
 CC the zinc finger binding protein of the invention.
 CC
 SQ Sequence 7 AA;
 Query Match 100.0%; Score 36; DB 23; Length 7;
 Best Local Similarity 100.0%; Pred. No. 9.3e+05;
 Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
 Oy 1 RSDHLR 7
 Db 1 RSDHLR 7
 RESULT 5
 ABB83583
 ID ABB83583 standard; peptide; 7 AA.
 XX
 AC ABB83583;
 XX
 DT 27-SEP-2002 (first entry)
 XX
 DE F3 zinc finger for target sequence ZFP 7.
 XX
 XX Zinc finger; stress tolerance; pathogen resistance;
 KW agrochemical.
 KW
 XX Undifferentiated.
 OS
 XX WO200257294-A2.
 PN
 XX 25-JUN-2002.
 PD
 XX 22-JAN-2002; 2002MO-US01906.
 PF
 XX 22-JAN-2001; 2001US-263445P.
 PR
 PR 11-MAY-2001; 2001US-290716P.
 XX
 XX (SANG-) SANGAMO BIOSCIENCES INC.
 PA
 XX
 XX Jamieson A, Li G;
 PI
 XX WPI; 2002-566792/60.
 DR
 PT Modified plant zinc finger protein for modulating gene expression in a
 PT plant cell comprises zinc fingers that bind to a target site -
 XX

PS Example 4; Page 42; 50pp; English.
 XX
 CC The present invention relates to a modified plant zinc finger
 CC protein. This zinc finger protein is used to modulate gene
 CC expression in a plant cell. Nucleic acid encoding the zinc finger is
 CC expressed in plant cells to produce a plant with an altered phenotype
 CC relative to the wild-type plant. The altered phenotype is high in
 CC nutritional value, yield, stress tolerance, pathogen resistance,
 CC resistance to agrochemicals, production of pharmaceutical compounds or
 CC production of industrial chemicals. The present sequence is
 CC a zinc finger protein sequence that is attracted to a ZFP target
 CC sequence.
 CC
 SQ Sequence 7 AA;
 Query Match 100.0%; Score 36; DB 23; Length 7;
 Best Local Similarity 100.0%; Pred. No. 9.3e+05;
 Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
 Oy 1 RSDHLR 7
 Db 1 RSDHLR 7
 RESULT 6
 ABB03821
 ID ABB03821 standard; Peptide; 7 AA.
 XX
 AC ABB03821;
 XX
 DT 25-SEP-2002 (first entry)
 XX
 DE Human VEGF-targeted zinc finger protein fragment SEQ ID NO: 64.
 XX
 XX Zinc finger protein; angiogenesis; vasculogenesis; ischaemia;
 KW diabetic retinopathy; psoriasis; arthropathy; cancer; tumour growth;
 KW gene therapy; antithrombotic; vasodilator; antidiabetic; vulnery;
 KW antitumor; cytotoxic; antiproliferative; antidiabetic; ophthalmological;
 KW osteopathic; antifertility.
 KW
 XX Homo sapiens.
 OS
 XX WO200246412-A2.
 PN
 XX 13-JUN-2002.
 PD
 XX 06-DEC-2001; 2001MO-US46861.
 PF
 XX 07-DEC-2000; 2000US-0733604.
 PR
 PR 12-DEC-2000; 2000US-0736083.
 PR
 PR 30-APR-2001; 2001US-0846033.
 XX
 XX (SANG-) SANGAMO BIOSCIENCES INC.
 PA
 XX
 XX Rebar E, Jamieson A, Liu Q, Liu P, Wolffe A, Eisenberg SP;
 PI
 PI Jarvis E;
 XX
 DR WPI; 2002-577918/56.
 DR
 XX New zinc finger protein that binds to target site in vascular
 PT endothelial growth factor gene, useful for modulating expression of the
 PT gene and for treating atherosclerosis, ischemia, arthritis, wound or
 PT ulcer -
 PT
 XX
 PS Claim 4; Page 102; 195pp; English.
 XX
 CC The present invention relates to a zinc finger protein that binds to a
 CC target site in one or more vascular endothelial growth factor (VEGF)
 CC genes. The protein is useful for modulating expression of a VEGF gene,
 CC thereby regulating angiogenesis and vasculogenesis. This can be used to
 CC treat atherosclerosis, ischemia, arthritis, wounds, ulcers, tumours,
 CC diabetic retinopathy or psoriasis. The present sequence is a peptide
 CC shown in the invention.

XX Sequence 7 AA;

Query Match 100.0%; Score 36; DB 23; Length 7;
Best Local Similarity 100.0%; Pred. No. 9.3e+05;
Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 RSDHLSR 7
Db 1 RSDHLSR 7

RESULT 7
AB03825
ID AB03825 standard; Peptide; 7 AA.

AC AB03825;

DT 25-SEP-2002 (first entry)

DE Human VEGF-targeted zinc finger protein fragment SEQ ID NO: 68.

XX Zinc finger protein; angiogenesis; vasculogenesis; ischaemia;
KM diabetic retinopathy; psoriasis; arthropathy; cancer; tumour growth;
KM gene therapy; antiatherosclerotic; vasotropic; antiarthritic; vulnery;
KM anticancer; cyostatic; antiporiatic; antidiabetic; ophthalmological;
KM osteopathic; antifertility.

OS Homo sapiens.

PN WO200246412-A2.

PD 13-JUN-2002.

PF 06-DEC-2001; 2001WO-US46861.

PR 07-DEC-2000; 2000US-0733604.

PR 12-DEC-2000; 2000US-0736083.

PR 30-APR-2001; 2001US-0846033.

XX (SANG-) SANGAMO BIOSCIENCES INC.

PI Rebar E, Jamieson A, Liu Q, Liu P, Wolffe A, Eisenberg SP;

PI Jarvis E;

PT New zinc finger protein that binds to target site in vascular

PT gene and for treating atherosclerosis, ischemia, arthritis, wound or

PS Claim 4; Page 102; 195pp; English.

CC The present invention relates to a zinc finger protein that binds to a
CC target site in one or more vascular endothelial growth factor (VEGF)
CC genes. The protein is useful for modulating expression of a VEGF gene,
CC thereby regulating angiogenesis and vasculogenesis. This can be used to
CC treat atherosclerosis, ischaemia, arthritis, wounds, ulcers, tumours,
CC diabetic retinopathy or psoriasis. The present sequence is a peptide
CC shown in the invention.

XX Sequence 7 AA;

Query Match 100.0%; Score 36; DB 23; Length 7;
Best Local Similarity 100.0%; Pred. No. 9.3e+05;
Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 RSDHLSR 7
Db 1 RSDHLSR 7

RESULT 8
AB03848
ID AB03848 standard; Peptide; 7 AA.

AC AB03848;

DT 25-SEP-2002 (first entry)

DE Human VEGF-targeted zinc finger protein fragment SEQ ID NO: 91.

XX Zinc finger protein; angiogenesis; vasculogenesis; ischaemia;
KM diabetic retinopathy; psoriasis; arthropathy; cancer; tumour growth;
KM gene therapy; antiatherosclerotic; vasotropic; antiarthritic; vulnery;
KM anticancer; cyostatic; antiporiatic; antidiabetic; ophthalmological;
KM osteopathic; antifertility.

OS Homo sapiens.

PN WO200246412-A2.

PD 13-JUN-2002.

PF 06-DEC-2001; 2001WO-US46861.

PR 07-DEC-2000; 2000US-0733604.

PR 12-DEC-2000; 2000US-0736083.

PR 30-APR-2001; 2001US-0846033.

XX (SANG-) SANGAMO BIOSCIENCES INC.

PI Rebar E, Jamieson A, Liu Q, Liu P, Wolffe A, Eisenberg SP;

PI Jarvis E;

PT New zinc finger protein that binds to target site in vascular

PT endothelial growth factor gene, useful for modulating expression of the

PT gene and for treating atherosclerosis, ischemia, arthritis, wound or

PS Claim 4; Page 102; 195pp; English.

CC The present invention relates to a zinc finger protein that binds to a
CC target site in one or more vascular endothelial growth factor (VEGF)
CC genes. The protein is useful for modulating expression of a VEGF gene,
CC thereby regulating angiogenesis and vasculogenesis. This can be used to
CC treat atherosclerosis, ischaemia, arthritis, wounds, ulcers, tumours,
CC diabetic retinopathy or psoriasis. The present sequence is a peptide
CC shown in the invention.

XX Sequence 7 AA;

Query Match 100.0%; Score 36; DB 23; Length 7;
Best Local Similarity 100.0%; Pred. No. 9.3e+05;
Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 RSDHLSR 7
Db 1 RSDHLSR 7

RESULT 9
AB03858
ID AB03858 standard; Peptide; 7 AA.

AC AB03858;

DT 25-SEP-2002 (first entry)

DE Human VEGF-targeted zinc finger protein fragment SEQ ID NO: 101.

XX Zinc finger protein; angiogenesis; vasculogenesis; ischaemia;
KM diabetic retinopathy; psoriasis; arthropathy; cancer; tumour growth.

KM gene therapy; antiatherosclerotic; vasotropic; antiarthritic; vulneryary;
KM antiulcer; cytotstatic; antiposoriatic; antidiabetic; ophthalmological;
KM osteopathic; antifertility.
XX Homo sapiens.
OS
XX WO200246412-A2.
PN
XX 13-JUN-2002.
PD
XX
PF 06-DEC-2001; 2001WO-US46861.
XX
PR 07-DEC-2000; 2000US-0733604.
PR 12-DEC-2000; 2000US-0736083.
PR 30-APR-2001; 2001US-0846033.
XX
PA (SANG-) SANGAMO BIOSCIENCES INC.
XX
XX Rebar E, Jamieson A, Liu Q, Liu P, Wolfe A, Eisenberg SP;
PI Jarvis E;
XX
XX WPI; 2002-527918/56.
DR
XX
XX New zinc finger protein that binds to target site in vascular
PT endothelial growth factor gene, useful for modulating expression of the
PT gene and for treating atherosclerosis, ischemia, arthritis, wound or
PT ulcer -
XX
XX
XX Claim 4; Page 102; 195pp; English.
PS
XX The present invention relates to a zinc finger protein that binds to a
CC target site in one or more vascular endothelial growth factor (VEGF)
CC genes. The protein is useful for modulating expression of a VEGF gene,
CC thereby regulating angiogenesis and vasculogenesis. This can be used to
CC treat atherosclerosis, ischemia, arthritis, wounds, ulcers, tumors,
CC diabetic retinopathy or psoriasis. The present sequence is a peptide
CC shown in the invention.
CC
XX
SQ Sequence 7 AA;
XX
XX
Query Match 100.0%; Score 36; DB 23; Length 7;
Best Local Similarity 100.0%; Pred. No. 9.3e+05;
Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
XX
QY 1 RSDHLSR 7
DB 1 RSDHLSR 7
XX
XX
RESULT 10
ABU03859
ID ABU03859 standard; Peptide; 7 AA.
XX
AC ABU03859;
XX
AC 25-SEP-2002 (first entry)
DT
XX
DE Human VEGF-targeted zinc finger protein fragment SEQ ID NO: 102.
XX
XX Zinc finger protein; angiogenesis; vasculogenesis; ischemia;
KM diabetic retinopathy; psoriasis; arthropathy; cancer; tumour growth;
KM gene therapy; antiatherosclerotic; vasotropic; antiarthritic; vulneryary;
KM antiulcer; cytotstatic; antiposoriatic; antidiabetic; ophthalmological;
KM osteopathic; antifertility.
XX
OS Homo sapiens.
XX
XX WO200246412-A2.
PN
XX 13-JUN-2002.
PD
XX
PF 06-DEC-2001; 2001WO-US46861.
XX
PT New zinc finger protein that binds to target site in vascular

PR 07-DEC-2000; 2000US-0733604.
PR 12-DEC-2000; 2000US-0736083.
PR 30-APR-2001; 2001US-0846033.
XX
XX (SANG-) SANGAMO BIOSCIENCES INC.
XX
XX Rebar E, Jamieson A, Liu Q, Liu P, Wolfe A, Eisenberg SP;
PI Jarvis E;
XX
XX WPI; 2002-527918/56.
DR
XX
XX New zinc finger protein that binds to target site in vascular
PT endothelial growth factor gene, useful for modulating expression of the
PT gene and for treating atherosclerosis, ischemia, arthritis, wound or
PT ulcer -
XX
XX
XX Claim 4; Page 102; 195pp; English.
PS
XX The present invention relates to a zinc finger protein that binds to a
CC target site in one or more vascular endothelial growth factor (VEGF)
CC genes. The protein is useful for modulating expression of a VEGF gene,
CC thereby regulating angiogenesis and vasculogenesis. This can be used to
CC treat atherosclerosis, ischemia, arthritis, wounds, ulcers, tumors,
CC diabetic retinopathy or psoriasis. The present sequence is a peptide
CC shown in the invention.
CC
XX
SQ Sequence 7 AA;
XX
XX
Query Match 100.0%; Score 36; DB 23; Length 7;
Best Local Similarity 100.0%; Pred. No. 9.3e+05;
Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
XX
QY 1 RSDHLSR 7
DB 1 RSDHLSR 7
XX
XX
RESULT 11
ABU03860
ID ABU03860 standard; Peptide; 7 AA.
XX
AC ABU03860;
XX
DT 25-SEP-2002 (first entry)
DT
XX
DE Human VEGF-targeted zinc finger protein fragment SEQ ID NO: 103.
XX
XX Zinc finger protein; angiogenesis; vasculogenesis; ischemia;
KM diabetic retinopathy; psoriasis; arthropathy; cancer; tumour growth;
KM gene therapy; antiatherosclerotic; vasotropic; antiarthritic; vulneryary;
KM antiulcer; cytotstatic; antiposoriatic; antidiabetic; ophthalmological;
KM osteopathic; antifertility.
XX
OS Homo sapiens.
XX
XX WO200246412-A2.
PN
XX 13-JUN-2002.
PD
XX
PF 06-DEC-2001; 2001WO-US46861.
XX
PR 07-DEC-2000; 2000US-0733604.
PR 12-DEC-2000; 2000US-0736083.
PR 30-APR-2001; 2001US-0846033.
XX
XX (SANG-) SANGAMO BIOSCIENCES INC.
XX
XX Rebar E, Jamieson A, Liu Q, Liu P, Wolfe A, Eisenberg SP;
PI Jarvis E;
XX
XX WPI; 2002-527918/56.
XX
PT New zinc finger protein that binds to target site in vascular

PT endothelial growth factor gene, useful for modulating expression of the
 PT gene and for treating atherosclerosis, ischemia, arthritis, wound or
 ulcer -
 XX
 PS Claim 4; Page 102; 195pp; English.
 CC The present invention relates to a zinc finger protein that binds to a
 CC target site in one or more vascular endothelial growth factor (VEGF)
 CC genes. The protein is useful for modulating expression of a VEGF gene,
 CC thereby regulating angiogenesis and vasculogenesis. This can be used to
 CC treat atherosclerosis, ischemia, arthritis, wounds, ulcers, tumors,
 CC diabetic retinopathy or psoriasis. The present sequence is a peptide
 CC shown in the invention.
 CC
 SQ Sequence 7 AA;
 QY
 Db 1 RSDHLSR 7
 1 RSDHLSR 7
 RESULT 12
 AB03861
 ID AB03861 standard; Peptide; 7 AA.
 AC
 XX AB03861;
 XX
 DT 25-SEP-2002 (first entry)
 XX
 DE Human VEGF-targeted zinc finger protein fragment SEQ ID NO: 104.
 XX
 XX Zinc finger protein; angiogenesis; vasculogenesis; ischemia;
 KM diabetic retinopathy; psoriasis; arthropathy; cancer; tumor growth;
 KM gene therapy; antiatherosclerotic; vasotropic; antiarthritic; vulnary;
 KM anticancer; cyostatic; antipsoriatic; antidiabetic; ophthalmological;
 KM osteopathic; antiinfertility.
 XX
 OS Homo sapiens.
 PN WO200246412-A2.
 XX
 PD 13-JUN-2002.
 XX
 PF 06-DEC-2001; 2001WO-US46861.
 XX
 PR 07-DEC-2000; 2000US-0733604.
 PR 12-DEC-2000; 2000US-0736083.
 PR 30-APR-2001; 2001US-0846033.
 XX
 PA (SANG-) SANGAMO BIOSCIENCES INC.
 XX
 PI Rebar E, Jamieson A, Liu Q, Wolfe A, Eisenberg SP;
 PI Jarvis E;
 XX
 DR WPI; 2002-527918/56.
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 PT New zinc finger protein that binds to target site in vascular
 PT endothelial growth factor gene, useful for modulating expression of the
 PT gene and for treating atherosclerosis, ischemia, arthritis, wound or
 ulcer -
 PT
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 PS Claim 4; Page 102; 195pp; English.
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 CC genes. The protein is useful for modulating expression of a VEGF gene,
 CC thereby regulating angiogenesis and vasculogenesis. This can be used to
 CC treat atherosclerosis, ischemia, arthritis, wounds, ulcers, tumors,
 CC diabetic retinopathy or psoriasis. The present sequence is a peptide

CC shown in the invention.
 CC
 SQ Sequence 7 AA;
 QY
 Db 1 RSDHLSR 7
 1 RSDHLSR 7
 RESULT 13
 AB03862
 ID AB03862 standard; Peptide; 7 AA.
 AC
 XX AB03862;
 XX
 DT 25-SEP-2002 (first entry)
 XX
 DE Human VEGF-targeted zinc finger protein fragment SEQ ID NO: 105.
 XX
 XX Zinc finger protein; angiogenesis; vasculogenesis; ischemia;
 KM diabetic retinopathy; psoriasis; arthropathy; cancer; tumor growth;
 KM gene therapy; antiatherosclerotic; vasotropic; antiarthritic; vulnary;
 KM anticancer; cyostatic; antipsoriatic; antidiabetic; ophthalmological;
 KM osteopathic; antiinfertility.
 XX
 OS Homo sapiens.
 PN WO200246412-A2.
 XX
 PD 13-JUN-2002.
 XX
 PF 06-DEC-2001; 2001WO-US46861.
 XX
 PR 07-DEC-2000; 2000US-0733604.
 PR 12-DEC-2000; 2000US-0736083.
 PR 30-APR-2001; 2001US-0846033.
 XX
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 PI Rebar E, Jamieson A, Liu Q, Wolfe A, Eisenberg SP;
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 DR WPI; 2002-527918/56.
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 PT endothelial growth factor gene, useful for modulating expression of the
 PT gene and for treating atherosclerosis, ischemia, arthritis, wound or
 ulcer -
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 CC treat atherosclerosis, ischemia, arthritis, wounds, ulcers, tumors,
 CC diabetic retinopathy or psoriasis. The present sequence is a peptide
 CC shown in the invention.
 CC
 SQ Sequence 7 AA;
 QY
 Db 1 RSDHLSR 7
 1 RSDHLSR 7
 Query Match 100.0%; Score 36; DB 23; Length 7;
 Best Local Similarity 100.0%; Pred. No. 9.3e+05;
 Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

RESULT 14
ABJ03863
ID ABJ03863 standard; Peptide; 7 AA.
XX
AC ABJ03863;
XX
DT 25-SEP-2002 (first entry)
XX
DE Human VEGF-targeted zinc finger protein fragment SEQ ID NO: 106.
XX
KW Zinc finger protein; angiogenesis; vasculogenesis; ischaemia;
KW diabetic retinopathy; psoriasis; arthropathy; cancer; tumour growth;
KW gene therapy; antiatherosclerotic; vasotropic; antiarthritic; vulnery;
KW antilicer; cytostatic; antipsoriatic; antidiabetic; ophthalmological;
KW osteopathic; antifertility.
XX
OS Homo sapiens.
XX
PN WO200246412-A2.
XX
PD 13-JUN-2002.
XX
PE 06-DEC-2001; 2001WO-US46861.
XX
PR 07-DEC-2000; 2000US-0733604.
PR 12-DEC-2000; 2000US-0736083.
PR 30-APR-2001; 2001US-0846033.
XX
PA (SANG-) SANGAMO BIOSCIENCES INC.
XX
PI Rebar E, Jamieson A, Liu Q, Liu P, Wolffe A, Eisenberg SP;
PI Jarvis E;
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XX WPI; 2002-527918/56.
XX
DR WPI; 2002-527918/56.
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PT New zinc finger protein that binds to target site in vascular
PT endothelial growth factor gene, useful for modulating expression of the
PT gene and for treating atherosclerosis, ischemia, arthritis, wound or
PT ulcer -
XX
PS Claim 4; Page 102; 195pp; English.
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CC The present invention relates to a zinc finger protein that binds to a
CC target site in one or more vascular endothelial growth factor (VEGF)
CC genes. The protein is useful for modulating expression of a VEGF gene,
CC thereby regulating angiogenesis and vasculogenesis. This can be used to
CC treat atherosclerosis, ischaemia, arthritis, wounds, ulcers, tumours,
CC diabetic retinopathy or psoriasis. The present sequence is a peptide
CC shown in the invention.
XX
SQ Sequence 7 AA;
XX
Query Match 100.0%; Score 36; DB 23; Length 7;
Best Local Similarity 100.0%; Pred. No. 9.3e+05;
Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
QY 1 RSDHLR 7
| | | | |
| | | | |
Db 1 RSDHLR 7
ID ABJ03866 standard; Peptide; 7 AA.
XX
AC ABJ03866;
XX
DT 25-SEP-2002 (first entry)
XX
DE Human VEGF-targeted zinc finger protein fragment SEQ ID NO: 109.
XX
KW Zinc finger protein; angiogenesis; vasculogenesis; ischaemia;

KW diabetic retinopathy; psoriasis; arthropathy; cancer; tumour growth;
KW gene therapy; antiatherosclerotic; vasotropic; antiarthritic; vulnery;
KW antilicer; cytostatic; antipsoriatic; antidiabetic; ophthalmological;
KW osteopathic; antifertility.
XX
OS Homo sapiens.
XX
PN WO200246412-A2.
XX
PD 13-JUN-2002.
XX
PE 06-DEC-2001; 2001WO-US46861.
XX
PR 07-DEC-2000; 2000US-0733604.
PR 12-DEC-2000; 2000US-0736083.
PR 30-APR-2001; 2001US-0846033.
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PA (SANG-) SANGAMO BIOSCIENCES INC.
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XX WPI; 2002-527918/56.
XX
DR WPI; 2002-527918/56.
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PT New zinc finger protein that binds to target site in vascular
PT endothelial growth factor gene, useful for modulating expression of the
PT gene and for treating atherosclerosis, ischemia, arthritis, wound or
PT ulcer -
XX
PS Claim 4; Page 102; 195pp; English.
XX
CC The present invention relates to a zinc finger protein that binds to a
CC target site in one or more vascular endothelial growth factor (VEGF)
CC genes. The protein is useful for modulating expression of a VEGF gene,
CC thereby regulating angiogenesis and vasculogenesis. This can be used to
CC treat atherosclerosis, ischaemia, arthritis, wounds, ulcers, tumours,
CC diabetic retinopathy or psoriasis. The present sequence is a peptide
CC shown in the invention.
XX
SQ Sequence 7 AA;
XX
Query Match 100.0%; Score 36; DB 23; Length 7;
Best Local Similarity 100.0%; Pred. No. 9.3e+05;
Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
QY 1 RSDHLR 7
| | | | |
| | | | |
Db 1 RSDHLR 7
ID ABJ03868 standard; Peptide; 7 AA.
XX
AC ABJ03868;
XX
DT 25-SEP-2002 (first entry)
XX
DE Human VEGF-targeted zinc finger protein fragment SEQ ID NO: 111.
XX
KW Zinc finger protein; angiogenesis; vasculogenesis; ischaemia;
KW diabetic retinopathy; psoriasis; arthropathy; cancer; tumour growth;
KW gene therapy; antiatherosclerotic; vasotropic; antiarthritic; vulnery;
KW antilicer; cytostatic; antipsoriatic; antidiabetic; ophthalmological;
KW osteopathic; antifertility.
XX
OS Homo sapiens.
XX
PN WO200246412-A2.
XX
PD 13-JUN-2002.
XX
PE 06-DEC-2001; 2001WO-US46861.

XX 07-DEC-2000; 2000US-0733604.
 PR 12-DEC-2000; 2000US-0736083.
 PR 30-APR-2001; 2001US-0846033.
 XX
 PA (SANG-) SANGAMO BIOSCIENCES INC.
 XX
 PI Rebar E, Jamieson A, Liu Q, Liu P, Wolffe A, Eisenberg SP;
 PI Jarvis E;
 XX
 DR WPI; 2002-527918/56.
 XX
 PT New zinc finger protein that binds to target site in vascular
 PT endothelial growth factor gene, useful for modulating expression of the
 PT gene and for treating atherosclerosis, ischemia, arthritis, wound or
 PT ulcer
 XX
 PS Claim 4; Page 102; 195pp; English.
 XX
 CC The present invention relates to a zinc finger protein that binds to a
 CC target site in one or more vascular endothelial growth factor (VEGF)
 CC genes. The protein is useful for modulating expression of a VEGF gene,
 CC thereby regulating angiogenesis and vasculogenesis. This can be used to
 CC treat atherosclerosis, ischemia, arthritis, wounds, ulcers, tumors,
 CC diabetic retinopathy or psoriasis. The present sequence is a peptide
 CC shown in the invention.
 CC
 SQ Sequence 7 AA;
 XX
 Query Match 100.0%; Score 36; DB 23; Length 7;
 Best Local Similarity 100.0%; Pred. NO. 9.3e+05;
 Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
 QY 1 RSDHLR 7
 1 RSDHLR 7
 DB 1 RSDHLR 7
 XX
 RESULT 17
 AB03870
 ID AB03870 standard; Peptide; 7 AA.
 XX
 AC AB03870;
 XX
 DT 25-SEP-2002 (first entry)
 XX
 DE Human VEGF-targeted zinc finger protein fragment SEQ ID NO: 113.
 XX
 KW zinc finger protein; angiogenesis; vasculogenesis; ischemia;
 KW diabetic retinopathy; psoriasis; arthropathy; cancer; tumor growth;
 KW gene therapy; antiatherosclerotic; vasotropic; antiarthritic; vulnary;
 KW anticancer; cytoskeletal; antipsoriatic; antidiabetic; ophthalmological;
 KW osteopathic; antiinfertility.
 XX
 OS Homo sapiens.
 XX
 PN WO200246412-A2.
 XX
 PD 13-JUN-2002.
 XX
 PF 06-DEC-2001; 2001WO-US46861.
 XX
 PR 07-DEC-2000; 2000US-0733604.
 PR 12-DEC-2000; 2000US-0736083.
 PR 30-APR-2001; 2001US-0846033.
 XX
 PA (SANG-) SANGAMO BIOSCIENCES INC.
 XX
 PI Rebar E, Jamieson A, Liu Q, Liu P, Wolffe A, Eisenberg SP;
 PI Jarvis E;
 XX
 DR WPI; 2002-527918/56.
 XX

PT New zinc finger protein that binds to target site in vascular
 PT endothelial growth factor gene, useful for modulating expression of the
 PT gene and for treating atherosclerosis, ischemia, arthritis, wound or
 PT ulcer
 XX
 PS Claim 4; Page 103; 195pp; English.
 XX
 CC The present invention relates to a zinc finger protein that binds to a
 CC target site in one or more vascular endothelial growth factor (VEGF)
 CC genes. The protein is useful for modulating expression of a VEGF gene,
 CC thereby regulating angiogenesis and vasculogenesis. This can be used to
 CC treat atherosclerosis, ischemia, arthritis, wounds, ulcers, tumors,
 CC diabetic retinopathy or psoriasis. The present sequence is a peptide
 CC shown in the invention.
 CC
 SQ Sequence 7 AA;
 XX
 Query Match 100.0%; Score 36; DB 23; Length 7;
 Best Local Similarity 100.0%; Pred. NO. 9.3e+05;
 Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
 QY 1 RSDHLR 7
 1 RSDHLR 7
 DB 1 RSDHLR 7
 XX
 RESULT 18
 AB03871
 ID AB03871 standard; Peptide; 7 AA.
 XX
 AC AB03871;
 XX
 DT 25-SEP-2002 (first entry)
 XX
 DE Human VEGF-targeted zinc finger protein fragment SEQ ID NO: 114.
 XX
 KW zinc finger protein; angiogenesis; vasculogenesis; ischemia;
 KW diabetic retinopathy; psoriasis; arthropathy; cancer; tumor growth;
 KW gene therapy; antiatherosclerotic; vasotropic; antiarthritic; vulnary;
 KW anticancer; cytoskeletal; antipsoriatic; antidiabetic; ophthalmological;
 KW osteopathic; antiinfertility.
 XX
 OS Homo sapiens.
 XX
 PN WO200246412-A2.
 XX
 PD 13-JUN-2002.
 XX
 PF 06-DEC-2001; 2001WO-US46861.
 XX
 PR 07-DEC-2000; 2000US-0733604.
 PR 12-DEC-2000; 2000US-0736083.
 PR 30-APR-2001; 2001US-0846033.
 XX
 PA (SANG-) SANGAMO BIOSCIENCES INC.
 XX
 PI Rebar E, Jamieson A, Liu Q, Liu P, Wolffe A, Eisenberg SP;
 PI Jarvis E;
 XX
 DR WPI; 2002-527918/56.
 XX
 PT New zinc finger protein that binds to target site in vascular
 PT endothelial growth factor gene, useful for modulating expression of the
 PT gene and for treating atherosclerosis, ischemia, arthritis, wound or
 PT ulcer
 XX
 PS Claim 4; Page 103; 195pp; English.
 XX
 CC The present invention relates to a zinc finger protein that binds to a
 CC target site in one or more vascular endothelial growth factor (VEGF)
 CC genes. The protein is useful for modulating expression of a VEGF gene,
 CC thereby regulating angiogenesis and vasculogenesis. This can be used to
 CC treat atherosclerosis, ischemia, arthritis, wounds, ulcers, tumors,
 CC

CC diabetic retinopathy or psoriasis. The present sequence is a peptide
 CC shown in the invention.

XX Sequence 7 AA;

Query Match 100.0%; Score 36; DB 23; Length 7;
 Best Local Similarity 100.0%; Pred. No. 9.3e+05;
 Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 RSDHLR 7
 |||||
 Db 1 RSDHLR 7

RESULT 19
 ABJ03873
 ID ABJ03873 standard; Peptide; 7 AA.

XX AC ABJ03873;

DT 25-SEP-2002 (first entry)

XX Human VEGF-targeted zinc finger protein fragment SEQ ID NO: 116.

XX Zinc finger protein; angiogenesis; vasculogenesis; ischaemia;
 KM diabetic retinopathy; psoriasis; arthropathy; cancer; tumour growth;
 KM gene therapy; antiatherosclerotic; vasotropic; antiarthritic; vulnary;
 KM anticancer; cytosolic; antiporatic; antidiabetic; ophthalmological;
 KM osteopathic; antifertility.

XX CS Homo sapiens.

XX PN WO200246412-A2.

XX PD 13-JUN-2002.

XX PF 06-DEC-2001; 2001WO-US46861.

XX PR 07-DEC-2000; 2000US-0733604.

XX PR 12-DEC-2000; 2000US-0736083.

XX PR 30-APR-2001; 2001US-0846033.

XX PA (SANG-) SANGAMO BIOSCIENCES INC.

XX PI Rebar E, Jamieson A, Liu Q, Wolfe A, Eisenberg SP;

XX PI Jarvis E;

XX DR WPI; 2002-527918/56.

XX PT New zinc finger protein that binds to target site in vascular

XX PT endothelial growth factor gene, useful for modulating expression of the

XX PT gene and for treating atherosclerosis, ischemia, arthritis, wound or

XX PT ulcer

XX PS Claim 4; Page 103; 195pp; English.

XX CC The present invention relates to a zinc finger protein that binds to a

XX CC target site in one or more vascular endothelial growth factor (VEGF)

XX CC genes. The protein is useful for modulating expression of a VEGF gene,

XX CC thereby regulating angiogenesis and vasculogenesis. This can be used to

XX CC treat atherosclerosis, ischaemia, arthritis, wounds, ulcers, tumours,

XX CC diabetic retinopathy or psoriasis. The present sequence is a peptide

XX CC shown in the invention.

XX SQ Sequence 7 AA;

Query Match 100.0%; Score 36; DB 23; Length 7;

Best Local Similarity 100.0%; Pred. No. 9.3e+05;

Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 RSDHLR 7
 |||||
 Db 1 RSDHLR 7

RESULT 20

ABJ03897
 ID ABJ03897 standard; Peptide; 7 AA.

XX AC ABJ03897;

DT 25-SEP-2002 (first entry)

XX Human VEGF-targeted zinc finger protein fragment SEQ ID NO: 154.

XX Zinc finger protein; angiogenesis; vasculogenesis; ischaemia;
 KM diabetic retinopathy; psoriasis; arthropathy; cancer; tumour growth;
 KM gene therapy; antiatherosclerotic; vasotropic; antiarthritic; vulnary;
 KM anticancer; cytosolic; antiporatic; antidiabetic; ophthalmological;
 KM osteopathic; antifertility.

XX OS Homo sapiens.

XX PN WO200246412-A2.

XX PD 13-JUN-2002.

XX PF 06-DEC-2001; 2001WO-US46861.

XX PR 07-DEC-2000; 2000US-0733604.

XX PR 12-DEC-2000; 2000US-0736083.

XX PR 30-APR-2001; 2001US-0846033.

XX PA (SANG-) SANGAMO BIOSCIENCES INC.

XX PI Rebar E, Jamieson A, Liu Q, Wolfe A, Eisenberg SP;

XX PI Jarvis E;

XX DR WPI; 2002-527918/56.

XX PT New zinc finger protein that binds to target site in vascular

XX PT endothelial growth factor gene, useful for modulating expression of the

XX PT gene and for treating atherosclerosis, ischemia, arthritis, wound or

XX PT ulcer

XX PS Example 1; Page 104; 195pp; English.

XX CC The present invention relates to a zinc finger protein that binds to a

XX CC target site in one or more vascular endothelial growth factor (VEGF)

XX CC genes. The protein is useful for modulating expression of a VEGF gene,

XX CC thereby regulating angiogenesis and vasculogenesis. This can be used to

XX CC treat atherosclerosis, ischaemia, arthritis, wounds, ulcers, tumours,

XX CC diabetic retinopathy or psoriasis. The present sequence is a peptide

XX CC shown in the invention.

XX SQ Sequence 7 AA;

Query Match 100.0%; Score 36; DB 23; Length 7;

Best Local Similarity 100.0%; Pred. No. 9.3e+05;

Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 RSDHLR 7
 |||||
 Db 1 RSDHLR 7

RESULT 21
 ABJ03906
 ID ABJ03906 standard; Peptide; 7 AA.

XX AC ABJ03906;

XX DT 25-SEP-2002 (first entry)

XX Human VEGF-targeted zinc finger protein fragment SEQ ID NO: 163.

KW Zinc finger protein; angiogenesis; vasculogenesis; ischaemia;
 KW diabetic retinopathy; psoriasis; arthropathy; cancer; tumour growth;
 KW gene therapy; antiatherosclerotic; vasotropic; antiarthritic; vulnery;
 KW anticancer; cytoskeletal; antiproliferative; antidiabetic; ophthalmological;
 KW osteopathic; antifertility.
 OS Homo sapiens.
 XX WO200246412-A2.
 PN 13-JUN-2002.
 XX
 XX 06-DEC-2001; 2001WO-US46861.
 PF
 XX 07-DEC-2000; 2000US-0733604.
 PR 12-DEC-2000; 2000US-0736083.
 PR 30-APR-2001; 2001US-0846033.
 XX
 XX (SANG-) SANGAMO BIOSCIENCES INC.
 PA
 PI Rebar E, Jamieson A, Liu Q, Liu P, Wolfe A, Eisenberg SP;
 PI Jarvis E;
 PI WPI; 2002-527918/56.
 DR
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 PT New zinc finger protein that binds to target site in vascular
 PT endothelial growth factor gene, useful for modulating expression of the
 PT gene and for treating atherosclerosis, ischemia, arthritis, wound or
 PT ulcer -
 PS Example 1; Page 104; 195pp; English.
 XX
 CC The present invention relates to a zinc finger protein that binds to a
 CC target site in one or more vascular endothelial growth factor (VEGF)
 CC genes. The protein is useful for modulating expression of a VEGF gene,
 CC thereby regulating angiogenesis and vasculogenesis. This can be used to
 CC treat atherosclerosis, ischemia, arthritis, wounds, ulcers, tumours,
 CC diabetic retinopathy or psoriasis. The present sequence is a peptide
 CC shown in the invention.
 CC
 SQ Sequence 7 AA;
 QY
 DB 1 RSDHLSR 7
 1 RSDHLSR 7
 1 RSDHLSR 7
 RESULT 22
 AB03912
 ID AB03912 standard; Peptide; 7 AA.
 XX
 AC AB03912;
 XX
 DT 25-SEP-2002 (first entry)
 XX
 DE Human VEGF-targeted zinc finger protein fragment SEQ ID NO: 169.
 XX
 KW Zinc finger protein; angiogenesis; vasculogenesis; ischaemia;
 KW diabetic retinopathy; psoriasis; arthropathy; cancer; tumour growth;
 KW gene therapy; antiatherosclerotic; vasotropic; antiarthritic; vulnery;
 KW anticancer; cytoskeletal; antiproliferative; antidiabetic; ophthalmological;
 KW osteopathic; antifertility.
 OS Homo sapiens.
 XX WO200246412-A2.
 PN 13-JUN-2002.
 XX

PF 06-DEC-2001; 2001WO-US46861.
 XX
 XX 07-DEC-2000; 2000US-0733604.
 PR 12-DEC-2000; 2000US-0736083.
 PR 30-APR-2001; 2001US-0846033.
 XX
 XX (SANG-) SANGAMO BIOSCIENCES INC.
 PA
 PI Rebar E, Jamieson A, Liu Q, Liu P, Wolfe A, Eisenberg SP;
 PI Jarvis E;
 PI WPI; 2002-527918/56.
 DR
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 PT New zinc finger protein that binds to target site in vascular
 PT endothelial growth factor gene, useful for modulating expression of the
 PT gene and for treating atherosclerosis, ischemia, arthritis, wound or
 PT ulcer -
 PS Example 1; Page 104; 195pp; English.
 XX
 CC The present invention relates to a zinc finger protein that binds to a
 CC target site in one or more vascular endothelial growth factor (VEGF)
 CC genes. The protein is useful for modulating expression of a VEGF gene,
 CC thereby regulating angiogenesis and vasculogenesis. This can be used to
 CC treat atherosclerosis, ischemia, arthritis, wounds, ulcers, tumours,
 CC diabetic retinopathy or psoriasis. The present sequence is a peptide
 CC shown in the invention.
 CC
 SQ Sequence 7 AA;
 QY
 DB 1 RSDHLSR 7
 1 RSDHLSR 7
 1 RSDHLSR 7
 RESULT 23
 AB03915
 ID AB03915 standard; Peptide; 7 AA.
 XX
 AC AB03915;
 XX
 DT 25-SEP-2002 (first entry)
 XX
 DE Human VEGF-targeted zinc finger protein fragment SEQ ID NO: 172.
 XX
 KW Zinc finger protein; angiogenesis; vasculogenesis; ischaemia;
 KW diabetic retinopathy; psoriasis; arthropathy; cancer; tumour growth;
 KW gene therapy; antiatherosclerotic; vasotropic; antiarthritic; vulnery;
 KW anticancer; cytoskeletal; antiproliferative; antidiabetic; ophthalmological;
 KW osteopathic; antifertility.
 OS Homo sapiens.
 XX WO200246412-A2.
 PN 13-JUN-2002.
 XX
 DE 06-DEC-2001; 2001WO-US46861.
 PF
 XX 07-DEC-2000; 2000US-0733604.
 PR 12-DEC-2000; 2000US-0736083.
 PR 30-APR-2001; 2001US-0846033.
 XX
 XX (SANG-) SANGAMO BIOSCIENCES INC.
 PA
 PI Rebar E, Jamieson A, Liu Q, Liu P, Wolfe A, Eisenberg SP;
 PI Jarvis E;
 PI WPI; 2002-527918/56.
 DR

XX New zinc finger protein that binds to target site in vascular
PT endothelial growth factor gene, useful for modulating expression of the
PT gene and for treating atherosclerosis, ischemia, arthritis, wound or
PT ulcer
XX
PS Example 1; Page 104; 195pp; English.
XX
CC The present invention relates to a zinc finger protein that binds to a
CC target site in one or more vascular endothelial growth factor (VEGF)
CC genes. The protein is useful for modulating expression of a VEGF gene,
CC thereby regulating angiogenesis and vasculogenesis. This can be used to
CC treat atherosclerosis, ischemia, arthritis, wounds, ulcers, tumours,
CC diabetic retinopathy or psoriasis. The present sequence is a peptide
CC shown in the invention.
XX
SQ Sequence 7 AA;
XX
Query Match 100.0%; Score 36; DB 23; Length 7;
Best Local Similarity 100.0%; Pred. No. 9.3e+05;
Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
XX
QY 1 RSDHLSR 7
1 RSDHLSR 7
XX
Db 1 RSDHLSR 7
XX
RESULT 24
ABU03917
ID ABU03917 standard; Peptide; 7 AA.
XX
AC ABU03917;
XX
DT 25-SEP-2002 (first entry)
XX
DE Human VEGF-targeted zinc finger protein fragment SEQ ID NO: 174.
XX
XX Zinc finger protein; angiogenesis; vasculogenesis; ischaemia;
XX diabetic retinopathy; psoriasis; arthropathy; cancer; tumour growth;
XX gene therapy; antiatherosclerotic; vasotropic; antiarthritic; vulnery;
XX antiulcer; cytosatic; antipsoriatic; antidiabetic; ophthalmological;
XX osteopathic; antifertility.
XX
OS Homo sapiens.
XX
PN WO200246412-A2.
XX
PD 13-JUN-2002.
XX
XX 06-DEC-2001; 2001WO-US46861.
XX
XX 07-DEC-2000; 2000US-0733604.
XX
XX 12-DEC-2000; 2000US-0736083.
XX
XX 30-APR-2001; 2001US-0846033.
XX
PA (SANG-) SANGAMO BIOSCIENCES INC.
XX
PI Rebar E, Jamieson A, Liu Q, Wolfe A, Eisenberg SP;
PI Jarvis E;
XX
DR WPI; 2002-527918/56.
XX
XX New zinc finger protein that binds to target site in vascular
PT endothelial growth factor gene, useful for modulating expression of the
PT gene and for treating atherosclerosis, ischemia, arthritis, wound or
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XX
PS Example 1; Page 104; 195pp; English.
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CC target site in one or more vascular endothelial growth factor (VEGF)
CC genes. The protein is useful for modulating expression of a VEGF gene,
CC thereby regulating angiogenesis and vasculogenesis. This can be used to
CC treat atherosclerosis, ischemia, arthritis, wounds, ulcers, tumours,
CC diabetic retinopathy or psoriasis. The present sequence is a peptide
CC shown in the invention.
XX
SQ Sequence 7 AA;
XX
Query Match 100.0%; Score 36; DB 23; Length 7;
Best Local Similarity 100.0%; Pred. No. 9.3e+05;
Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
XX
QY 1 RSDHLSR 7
1 RSDHLSR 7
XX
Db 1 RSDHLSR 7
XX
RESULT 25
ABU03920
ID ABU03920 standard; Peptide; 7 AA.
XX
AC ABU03920;
XX
DT 25-SEP-2002 (first entry)
XX
DE Human VEGF-targeted zinc finger protein fragment SEQ ID NO: 177.
XX
XX Zinc finger protein; angiogenesis; vasculogenesis; ischaemia;
XX diabetic retinopathy; psoriasis; arthropathy; cancer; tumour growth;
XX gene therapy; antiatherosclerotic; vasotropic; antiarthritic; vulnery;
XX antiulcer; cytosatic; antipsoriatic; antidiabetic; ophthalmological;
XX osteopathic; antifertility.
XX
OS Homo sapiens.
XX
PN WO200246412-A2.
XX
PD 13-JUN-2002.
XX
XX 06-DEC-2001; 2001WO-US46861.
XX
XX 07-DEC-2000; 2000US-0733604.
XX
XX 12-DEC-2000; 2000US-0736083.
XX
XX 30-APR-2001; 2001US-0846033.
XX
PA (SANG-) SANGAMO BIOSCIENCES INC.
XX
PI Rebar E, Jamieson A, Liu Q, Wolfe A, Eisenberg SP;
PI Jarvis E;
XX
DR WPI; 2002-527918/56.
XX
XX New zinc finger protein that binds to target site in vascular
PT endothelial growth factor gene, useful for modulating expression of the
PT gene and for treating atherosclerosis, ischemia, arthritis, wound or
PT ulcer
XX
PS Example 1; Page 104; 195pp; English.
XX
CC The present invention relates to a zinc finger protein that binds to a
CC target site in one or more vascular endothelial growth factor (VEGF)
CC genes. The protein is useful for modulating expression of a VEGF gene,
CC thereby regulating angiogenesis and vasculogenesis. This can be used to
CC treat atherosclerosis, ischemia, arthritis, wounds, ulcers, tumours,
CC diabetic retinopathy or psoriasis. The present sequence is a peptide
CC shown in the invention.
XX
SQ Sequence 7 AA;
XX
Query Match 100.0%; Score 36; DB 23; Length 7;
Best Local Similarity 100.0%; Pred. No. 9.3e+05;
Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
XX
QY 1 RSDHLSR 7
1 RSDHLSR 7
XX
Db 1 RSDHLSR 7
XX

CC treat atherosclerosis, ischaemia, arthritis, wounds, ulcers, tumours,
CC diabetic retinopathy or psoriasis. The present sequence is a peptide
CC shown in the invention.
XX
SQ Sequence 7 AA;
XX
Query Match 100.0%; Score 36; DB 23; Length 7;
Best Local Similarity 100.0%; Pred. No. 9.3e+05;
Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
XX
QY 1 RSDHLSR 7
1 RSDHLSR 7
XX
Db 1 RSDHLSR 7
XX
RESULT 25
ABU03920
ID ABU03920 standard; Peptide; 7 AA.
XX
AC ABU03920;
XX
DT 25-SEP-2002 (first entry)
XX
DE Human VEGF-targeted zinc finger protein fragment SEQ ID NO: 177.
XX
XX Zinc finger protein; angiogenesis; vasculogenesis; ischaemia;
XX diabetic retinopathy; psoriasis; arthropathy; cancer; tumour growth;
XX gene therapy; antiatherosclerotic; vasotropic; antiarthritic; vulnery;
XX antiulcer; cytosatic; antipsoriatic; antidiabetic; ophthalmological;
XX osteopathic; antifertility.
XX
OS Homo sapiens.
XX
PN WO200246412-A2.
XX
PD 13-JUN-2002.
XX
XX 06-DEC-2001; 2001WO-US46861.
XX
XX 07-DEC-2000; 2000US-0733604.
XX
XX 12-DEC-2000; 2000US-0736083.
XX
XX 30-APR-2001; 2001US-0846033.
XX
PA (SANG-) SANGAMO BIOSCIENCES INC.
XX
PI Rebar E, Jamieson A, Liu Q, Wolfe A, Eisenberg SP;
PI Jarvis E;
XX
DR WPI; 2002-527918/56.
XX
XX New zinc finger protein that binds to target site in vascular
PT endothelial growth factor gene, useful for modulating expression of the
PT gene and for treating atherosclerosis, ischemia, arthritis, wound or
PT ulcer
XX
PS Example 1; Page 104; 195pp; English.
XX
CC The present invention relates to a zinc finger protein that binds to a
CC target site in one or more vascular endothelial growth factor (VEGF)
CC genes. The protein is useful for modulating expression of a VEGF gene,
CC thereby regulating angiogenesis and vasculogenesis. This can be used to
CC treat atherosclerosis, ischemia, arthritis, wounds, ulcers, tumours,
CC diabetic retinopathy or psoriasis. The present sequence is a peptide
CC shown in the invention.
XX
SQ Sequence 7 AA;
XX
Query Match 100.0%; Score 36; DB 23; Length 7;
Best Local Similarity 100.0%; Pred. No. 9.3e+05;
Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
XX
QY 1 RSDHLSR 7
1 RSDHLSR 7
XX
Db 1 RSDHLSR 7
XX

```

DB      1 RSDHLR 7
KW      ZFP, cytosolic; antidiabetic; ophthalmological; vasotropic; chromatin;
KW      gene expression; antidiabetic; antidiabetic; antidiabetic; antidiabetic;
KW      neuroprotective; cerebroprotective; estrogen receptor alpha; ER-alpha;
KW      zinc finger protein.
XX
OS      Synthetic.
XX
PN      WO200244386-A2.
XX
DT      06-JUN-2002.
XX
DE      Rat VEGF-targeted zinc finger protein fragment SEQ ID NO: 200.
XX
KW      Zinc finger protein; angiogenesis; vasculogenesis; ischaemia;
KW      diabetic retinopathy; psoriasis; arthropathy; cancer; tumour growth;
KW      gene therapy; antidiabetic; antidiabetic; antidiabetic; antidiabetic;
KW      antidiabetic; cytosolic; antidiabetic; antidiabetic; antidiabetic;
KW      osteopathic; antidiabetic.
XX
OS      Rattus sp.
XX
PN      WO20024412-A2.
XX
DT      13-JUN-2002.
XX
DE      06-DEC-2001; 2001WO-US46861.
XX
PR      07-DEC-2000; 2000US-0733604.
XX
PR      12-DEC-2000; 2000US-0736083.
XX
PR      30-APR-2001; 2001US-0846033.
XX
PA      (SANG-) SANGAMO BIOSCIENCES INC.
XX
PI      Rebar E, Jamieson A, Liu Q, Liu P, Wolfe A, Eisenberg SP,
PI      Jarvis E,
XX
DR      WPI; 2002-527918/56.
XX
PT      New zinc finger protein that binds to target site in vascular
PT      endothelial growth factor gene, useful for modulating expression of the
PT      gene and for treating atherosclerosis, ischemia, arthritis, wound or
PT      ulcer -
XX
PS      Disclosure; Page 105; 195pp; English.
XX
CC      The present invention relates to a zinc finger protein that binds to a
CC      target site in one or more vascular endothelial growth factor (VEGF)
CC      genes. The protein is useful for modulating expression of a VEGF gene,
CC      thereby regulating angiogenesis and vasculogenesis. This can be used to
CC      treat atherosclerosis, ischemia, arthritis, wounds, ulcers, tumors,
CC      diabetic retinopathy or psoriasis. The present sequence is a peptide
CC      shown in the invention.
XX
SQ      Sequence 7 AA;
XX
Query Match      100.0%; Score 36; DB 23; Length 7;
Best Local Similarity 100.0%; Pred. No. 9.3e+05;
Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
QY      1 RSDHLR 7
DB      1 RSDHLR 7
XX
RESULT 27
ABB80809
ID      ABB80809 standard; peptide; 7 AA.
XX
AC      ABB80809;
XX
DT      23-SEP-2002 (first entry)
XX
DE      Human ER-alpha locus targeting ZFP3 peptide #1.

```

```

XX      ZFP, cytosolic; antidiabetic; ophthalmological; vasotropic; chromatin;
XX      gene expression; antidiabetic; antidiabetic; antidiabetic; antidiabetic;
XX      neuroprotective; cerebroprotective; estrogen receptor alpha; ER-alpha;
XX      zinc finger protein.
XX
OS      Synthetic.
XX
PN      WO200244386-A2.
XX
DT      06-JUN-2002.
XX
DE      30-NOV-2001; 2001WO-US45098.
XX
PR      01-DEC-2000; 2000US-250804P.
XX
PA      (SANG-) SANGAMO BIOSCIENCES INC.
XX
PI      Wolfe AP, Tse C, Collingwood T;
XX
DR      WPI; 2002-537455/57.
XX
PT      Regulating expression of gene by contacting cell with regulatory
PT      molecule comprising DNA-binding domain targeted to sequence within
PT      accessible region of cellular chromatin associated with a gene, and
PT      functional domain -
XX
PS      Example 1; Page 44; 64pp; English.
XX
CC      The invention relates to regulating the expression of a gene residing in
CC      the chromatin of a cell. The method involves identifying one or more
CC      accessible regions in cellular chromatin associated with gene; designing
CC      a regulatory molecule, where the regulatory molecule comprises a DNA-
CC      binding domain targeted to a sequence within the accessible region, and a
CC      functional domain; and contacting the regulatory molecule with the cell.
CC      The method is used for regulating the expression of a gene (e.g., a gene
CC      encoding a nuclear receptor such as estrogen receptor alpha (ERalpha),
CC      estrogen receptor beta (ERbeta), hepatocyte nuclear factor 4 alpha
CC      (HNF4alpha), hepatocyte nuclear factor 4 gamma (HNF4gamma), peroxisome
CC      proliferator activated receptor gamma (PPARGgamma), retinoid X receptor
CC      alpha (RXRalpha), or constitutively active receptor alpha (CARalpha))
CC      residing in the chromatin of a cell. Regulation of gene expression (such
CC      as nuclear receptor genes) will be useful in treatment of various
CC      diseases, including cancer, diabetes and cardiovascular disease, where
CC      the regulatory molecule as described above, is contacted with the cell to
CC      carry out the regulation. The method is also useful for modulation of
CC      gene expression for therapeutic or prophylactic applications e.g.,
CC      diabetic retinopathy, ischemia, macular degeneration, rheumatoid
CC      arthritis, psoriasis, HIV infection, sickle cell anemia, Alzheimer's
CC      disease, stroke, etc. The method also has applications in pharmaceutical
CC      research of both nuclear receptors of known function as well as those of
CC      unknown function. The method also facilitates development of tissue and
CC      animal models of disease states, drug validation, and therapeutic product
CC      development. The methods also allow identification of the role of nuclear
CC      receptors of unknown functions in cellular homeostasis. Sequences that
CC      ABB80791-817 represent zinc finger protein (ZFP) DNA-binding domains that
CC      were fused to functional domains and tested for their ability to regulate
CC      expression of the ER in living cells.
XX
SQ      Sequence 7 AA;
XX
Query Match      100.0%; Score 36; DB 23; Length 7;
Best Local Similarity 100.0%; Pred. No. 9.3e+05;
Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
QY      1 RSDHLR 7
DB      1 RSDHLR 7
XX
RESULT 28
ABB80811
ID      ABB80811 standard; peptide; 7 AA.

```

XX ABB80811;
 AC 23-SEP-2002 (first entry)
 XX
 DT
 XX
 XX
 DE Human ER-alpha locus targeting ZFP3 peptide #3.
 XX
 XX ZFP: cytosolic; antidiabetic; ophthalmological; vasotropic; chromatin;
 KM gene expression; antirheumatic; antiallergic; antiposrotic; nootropic;
 KM neuroprotective; cerebroprotective; estrogen receptor alpha; ER-alpha;
 KM zinc finger protein.
 XX
 XX Synthetic.
 OS
 PN WO200244386-A2.
 XX
 PD 06-JUN-2002.
 XX
 PF 30-NOV-2001; 2001WO-US45098.
 XX
 PR 01-DEC-2000; 2000US-250804P.
 XX
 PA (SANG-) SANGAMO BIOSCIENCES INC.
 XX
 PI Wolfe AP, Tse C, Collingwood T;
 PI
 DR WPI; 2002-537455/57.
 XX
 PT Regulating expression of gene by contacting cell with regulatory
 PT molecule comprising DNA-binding domain targeted to sequence within
 PT accessible region of cellular chromatin associated with a gene, and
 PT functional domain -
 XX
 PS Example 1; Page 44; 64pp; English.
 XX
 CC The invention relates to regulating the expression of a gene residing in
 CC the chromatin of a cell. The method involves identifying one or more
 CC accessible regions in cellular chromatin associated with gene; designing
 CC a regulatory molecule, where the regulatory molecule comprises a DNA-
 CC binding domain targeted to a sequence within the accessible region, and a
 CC functional domain; and contacting the regulatory molecule with the cell.
 CC The method is used for regulating the expression of a gene (e.g., a gene
 CC encoding a nuclear receptor such as estrogen receptor alpha (ERalpha),
 CC estrogen receptor beta (ERbeta), hepatocyte nuclear factor 4 alpha
 CC (HNF4alpha), hepatocyte nuclear factor 4 gamma (HNF4gamma), peroxisome
 CC proliferator activated receptor gamma (PPARgamma), retinoid X receptor
 CC alpha (RXRalpha), or constitutively active receptor alpha (CARalpha))
 CC residing in the chromatin of a cell. Regulation of gene expression (such
 CC as nuclear receptor genes) will be useful in treatment of various
 CC diseases, including cancer, diabetes and cardiovascular disease, where
 CC the regulatory molecule as described above, is contacted with the cell to
 CC carry out the regulation. The method is also useful for modulation of
 CC gene expression for therapeutic or prophylactic applications e.g.,
 CC diabetic retinopathy, ischaemia, macular degeneration, rheumatoid
 CC arthritis, psoriasis, HIV infection, sickle cell anemia, Alzheimer's
 CC disease, stroke, etc. The method also has applications in pharmaceutical
 CC research of both nuclear receptors of known function as well as those of
 CC unknown function. The method also facilitates development of tissue and
 CC animal models of disease states, drug validation, and therapeutic product
 CC development. The methods also allow identification of the role of nuclear
 CC receptors of unknown functions in cellular homeostasis. Sequences
 CC ABB80791-817 represent zinc finger protein (ZFP) DNA-binding domains that
 CC were fused to functional domains and tested for their ability to regulate
 CC expression of the ER in living cells.
 XX
 SQ Sequence 7 AA;
 SQ

Query Match 100.0%; Score 36; DB 23; Length 7;
 Best Local Similarity 100.0%; Pred. No. 9.3e+05;
 Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

1 RSDHLR 7
 |||||

DB 1 RSDHLR 7
 RESULT 29
 ABB98009
 ID ABB98009 standard; Peptide; 7 AA.
 XX
 XX ABB98009;
 AC
 XX
 DT 06-SEP-2002 (first entry)
 XX
 DE Zinc finger protein 3 finger 3 peptide.
 XX
 XX Human; heparanase; cytosolic; vasotropic; antidiabetic; anti-HIV;
 KM ophthalmological; antirheumatic; antiallergic; antiposrotic;
 KM antianaemic; neuroprotective; nootropic; cerebroprotective;
 KM antibacterial; virucide; protozoacide; fungicide; antiinflammatory;
 KM cardiant; immunosuppressive; tumour metastasis; inflammatory disease;
 KM allograft rejection; cell migration; angiogenesis; basement membrane;
 KM extracellular matrix; cancer; ischaemia; diabetic retinopathy;
 KM macular degeneration; rheumatoid arthritis; psoriasis; HIV infection;
 KM sickle cell anaemia; Alzheimer's disease; muscular dystrophy;
 KM neurodegenerative disease; vascular disease; cardiovascular disease;
 KM cystic fibrosis; stroke; gene therapy; zinc finger protein; ZFP.
 XX
 XX Homo sapiens.
 OS
 PN WO200244353-A2.
 XX
 PD 06-JUN-2002.
 XX
 PF 30-NOV-2001; 2001WO-US44798.
 XX
 PR 30-NOV-2000; 2000US-250690P.
 XX
 PA (SANG-) SANGAMO BIOSCIENCES INC.
 XX
 PI Wolfe AP, Qi H;
 PI
 DR WPI; 2002-527708/56.
 XX
 PT New heparanase polynucleotide, useful for controlling disease states
 PT such as tumour metastasis, inflammatory diseases and allograft rejection
 PT -
 XX
 PS Example 3; Page 49; 72pp; English.
 XX
 CC The invention relates to novel heparanase sequences, particularly novel
 CC sequences from the regulatory regions upstream and downstream of the
 CC coding region. The activity of polynucleotides of the invention may be
 CC described as, cytostatic, vasotropic, antidiabetic, anti-HIV,
 CC ophthalmological, antirheumatic, antiallergic, antiposrotic,
 CC antianaemic, neuroprotective, nootropic, cerebroprotective,
 CC antibacterial, virucide, protozoacide, fungicide, antiinflammatory,
 CC cardiant and immunosuppressive. Modulating expression of heparanase gene
 CC using constructs of the invention is useful for facilitating targeted
 CC control of disease states such as tumour metastasis, inflammatory
 CC diseases, allograft rejection, and for inhibiting processes such as cell
 CC migration, angiogenesis, and degradation of the basement membrane and/or
 CC extracellular matrix. Heparanase-targeted DNA binding domains modulates
 CC gene expression, and are useful for therapeutic or prophylactic
 CC applications, for e.g. cancer, ischaemia, diabetic retinopathy, macular
 CC degeneration, rheumatoid arthritis, psoriasis, HIV infection, sickle cell
 CC anaemia, Alzheimer's disease, muscular dystrophy, neurodegenerative
 CC diseases, vascular disease, cardiovascular disease, cystic fibrosis,
 CC stroke, and bacterial, protozoal, fungal and viral infection. Constructs
 CC of the invention may also be useful in gene therapy. The current sequence
 CC represents a finger of a three-finger ZFP (zinc finger protein), which
 CC has a target site in the human heparanase gene.
 XX
 SQ Sequence 7 AA;
 SQ

Query Match 100.0%; Score 36; DB 23; Length 7;
 |||||

Best Local Similarity 100.0%; Pred. No. 9.3e+05;
Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

OY 1 RSDHLSR 7
Db 1 RSDHLSR 7

RESULT 30
ABB98015
ID ABB98015 standard; Peptide: 7 AA.

AC ABB98015;

DT 06-SEP-2002 (first entry)

DE Zinc finger protein 5 finger 3 peptide.

Human, heparanase; cytosolic; vasotropic; antidiabetic; anti-HIV;
ophthalmological; antirheumatic; antiarthritic; antiposrotic;
antianemic; neuroprotective; nootropic; cerebroprotective;
antibacterial; virucide; protozoacide; fungicide; antiinflammatory;
cardiant; immunosuppressive; tumour metastasis; inflammatory disease;
allograft rejection; cell migration; angiogenesis; basement membrane;
extracellular matrix; cancer; ischaemia; diabetic retinopathy;
macular degeneration; rheumatoid arthritis; psoriasis; HIV infection;
sickle cell anaemia; Alzheimer's disease; muscular dystrophy;
neurodegenerative disease; vascular disease; cardiovascular disease;
cystic fibrosis; stroke; gene therapy; zinc finger protein; ZFP.

OS Homo sapiens.

FN WO200244353-A2.

PD 06-JUN-2002.

PF 30-NOV-2001; 2001WO-US44798.

PR 30-NOV-2000; 2000US-250690P.

PA (SANG-) SANGAMO BIOSCIENCES INC.

PI Wolfe AP, Qi H;

DR WPI; 2002-527708/56.

PT New heparanase polynucleotide, useful for controlling disease states
PT such as tumour metastasis, inflammatory diseases and allograft rejection

Example 3; Page 49; 72pp; English.

The invention relates to novel heparanase sequences, particularly novel
sequences from the regulatory regions upstream and downstream of the
coding region. The activity of polynucleotides of the invention may be
described as, cytosolic, vasotropic, antidiabetic, anti-HIV,
ophthalmological, antirheumatic, antiarthritic, antiposrotic,
antianemic, neuroprotective, nootropic, cerebroprotective,
antibacterial, virucide, protozoacide, fungicide, antiinflammatory,
cardiant and immunosuppressive. Modulating expression of heparanase gene
using constructs of the invention is useful for facilitating targeted
control of disease states such as tumour metastasis, inflammatory
diseases, allograft rejection, and for inhibiting processes such as cell
migration, angiogenesis, and degradation of the basement membrane and/or
extracellular matrix. Heparanase-targeted DNA binding domains modulates
gene expression, and are useful for therapeutic or prophylactic
applications, for e.g. cancer, ischaemia, diabetic retinopathy, macular
degeneration, rheumatoid arthritis, psoriasis, HIV infection, sickle cell
anaemia, Alzheimer's disease, muscular dystrophy, neurodegenerative
diseases, vascular disease, cardiovascular disease, cystic fibrosis,
stroke, and bacterial, protozoal, fungal and viral infection. Constructs
of the invention may also be useful in gene therapy. The current sequence
represents a finger of a three-finger ZFP (zinc finger protein), which

CC has a target site in the human heparanase gene.

XX Sequence 7 AA;

Query Match 100.0%; Score 36; DB 23; Length 7;
Best Local Similarity 100.0%; Pred. No. 9.3e+05;
Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

OY 1 RSDHLSR 7
Db 1 RSDHLSR 7

RESULT 31
ABB98036
ID ABB98036 standard; Peptide: 7 AA.

AC ABB98036;

DT 06-SEP-2002 (first entry)

DE Zinc finger protein 12 finger 3 peptide.

Human, heparanase; cytosolic; vasotropic; antidiabetic; anti-HIV;
ophthalmological; antirheumatic; antiarthritic; antiposrotic;
antianemic; neuroprotective; nootropic; cerebroprotective;
antibacterial; virucide; protozoacide; fungicide; antiinflammatory;
cardiant; immunosuppressive; tumour metastasis; inflammatory disease;
allograft rejection; cell migration; angiogenesis; basement membrane;
extracellular matrix; cancer; ischaemia; diabetic retinopathy;
macular degeneration; rheumatoid arthritis; psoriasis; HIV infection;
sickle cell anaemia; Alzheimer's disease; muscular dystrophy;
neurodegenerative disease; vascular disease; cardiovascular disease;
cystic fibrosis; stroke; gene therapy; zinc finger protein; ZFP.

OS Homo sapiens.

FN WO200244353-A2.

PD 06-JUN-2002.

PF 30-NOV-2001; 2001WO-US44798.

PR 30-NOV-2000; 2000US-250690P.

PA (SANG-) SANGAMO BIOSCIENCES INC.

PI Wolfe AP, Qi H;

DR WPI; 2002-527708/56.

PT New heparanase polynucleotide, useful for controlling disease states
PT such as tumour metastasis, inflammatory diseases and allograft rejection

Example 3; Page 49; 72pp; English.

The invention relates to novel heparanase sequences, particularly novel
sequences from the regulatory regions upstream and downstream of the
coding region. The activity of polynucleotides of the invention may be
described as, cytosolic, vasotropic, antidiabetic, anti-HIV,
ophthalmological, antirheumatic, antiarthritic, antiposrotic,
antianemic, neuroprotective, nootropic, cerebroprotective,
antibacterial, virucide, protozoacide, fungicide, antiinflammatory,
cardiant and immunosuppressive. Modulating expression of heparanase gene
using constructs of the invention is useful for facilitating targeted
control of disease states such as tumour metastasis, inflammatory
diseases, allograft rejection, and for inhibiting processes such as cell
migration, angiogenesis, and degradation of the basement membrane and/or
extracellular matrix. Heparanase-targeted DNA binding domains modulates
gene expression, and are useful for therapeutic or prophylactic
applications, for e.g. cancer, ischaemia, diabetic retinopathy, macular
degeneration, rheumatoid arthritis, psoriasis, HIV infection, sickle cell

CC anaemia, Alzheimer's disease, muscular dystrophy, neurodegenerative
 CC diseases, vascular disease, cardiovascular disease, cystic fibrosis,
 CC stroke, and bacterial, protozoal, fungal and viral infection. Constructs
 CC of the invention may also be useful in gene therapy. The current sequence
 CC represents a finger of a three-finger ZFP (zinc finger protein), which
 CC has a target site in the human heparanase gene.

XX Sequence 7 AA;

Query Match 100.0%; Score 36; DB 23; Length 7;
 Best Local Similarity 100.0%; Pred. No. 9.3e+05;
 Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 RSDHLR 7
 Db 1 RSDHLR 7

RESULT 32

ID ABB98048 standard; Peptide; 7 AA.

XX ABB98048;

DT 06-SEP-2002 (first entry)

DE Zinc finger protein 16 finger 3 peptide.

XX Human, heparanase; cytosolic; vasotropic; antidiabetic; anti-HIV;
 XX ophthalmological; antirheumatic; antiarthritic; antipsoriatic;
 XX antianaemic; neuroprotective; nootropic; cerebroprotective;
 XX antibacterial; virucide; protozoacide; fungicide; antiinflammatory;
 XX cardiant; immunosuppressive; tumour metastasis; inflammatory disease;
 XX allograft rejection; cell migration; angiogenesis; basement membrane;
 XX extracellular matrix; cancer; ischaemia; diabetic retinopathy;
 XX macular degeneration; rheumatoid arthritis; psoriasis; HIV infection;
 XX sickle cell anaemia; Alzheimer's disease; muscular dystrophy;
 XX neurodegenerative disease; vascular disease; cardiovascular disease;
 XX cystic fibrosis; stroke; gene therapy; zinc finger protein; ZFP.

OS Homo sapiens.

FN WO200244353-A2.

PD 06-JUN-2002.

PF 30-NOV-2001; 2001WO-US44798.

PR 30-NOV-2000; 2000US-250690P.

PA (SANG-) SANGAMO BIOSCIENCES INC.

PI Wolffe AP, Qi H;

DR WPI; 2002-527708/56.

XX New heparanase polynucleotide, useful for controlling disease states
 PT such as tumour metastasis, inflammatory diseases and allograft rejection

PS Example 3; Page 49; 72pp; English.

XX The invention relates to novel heparanase sequences, particularly novel
 CC sequences from the regulatory regions upstream and downstream of the
 CC coding region. The activity of polynucleotides of the invention may be
 CC described as, cytosolic, vasotropic, antidiabetic, anti-HIV,
 CC ophthalmological, antirheumatic, antiarthritic, antipsoriatic,
 CC antianaemic, neuroprotective, nootropic, cerebroprotective,
 CC antibacterial, virucide, protozoacide, fungicide, antiinflammatory,
 CC cardiant and immunosuppressive. Modulating expression of heparanase gene
 CC using constructs of the invention is useful for facilitating targeted
 CC control of disease states such as tumour metastasis, inflammatory
 CC diseases, allograft rejection, and for inhibiting processes such as cell

CC migration, angiogenesis, and degradation of the basement membrane and/or
 CC extracellular matrix. Heparanase-targeted DNA binding domains modulates
 CC gene expression, and are useful for therapeutic or prophylactic
 CC applications, for e.g. cancer, ischaemia, diabetic retinopathy, macular
 CC degeneration, rheumatoid arthritis, psoriasis, HIV infection, sickle cell
 CC anaemia, Alzheimer's disease, muscular dystrophy, neurodegenerative
 CC diseases, vascular disease, cardiovascular disease, cystic fibrosis,
 CC stroke, and bacterial, protozoal, fungal and viral infection. Constructs
 CC of the invention may also be useful in gene therapy. The current sequence
 CC represents a finger of a three-finger ZFP (zinc finger protein), which
 CC has a target site in the human heparanase gene.

XX Sequence 7 AA;

Query Match 100.0%; Score 36; DB 23; Length 7;
 Best Local Similarity 100.0%; Pred. No. 9.3e+05;
 Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 RSDHLR 7
 Db 1 RSDHLR 7

RESULT 33

ID ABB98063 standard; Peptide; 7 AA.

XX ABB98063;

DT 06-SEP-2002 (first entry)

DE Zinc finger protein 20 finger 3 peptide.

XX Human, heparanase; cytosolic; vasotropic; antidiabetic; anti-HIV;
 XX ophthalmological; antirheumatic; antiarthritic; antipsoriatic;
 XX antianaemic; neuroprotective; nootropic; cerebroprotective;
 XX antibacterial; virucide; protozoacide; fungicide; antiinflammatory;
 XX cardiant; immunosuppressive; tumour metastasis; inflammatory disease;
 XX allograft rejection; cell migration; angiogenesis; basement membrane;
 XX extracellular matrix; cancer; ischaemia; diabetic retinopathy;
 XX macular degeneration; rheumatoid arthritis; psoriasis; HIV infection;
 XX sickle cell anaemia; Alzheimer's disease; muscular dystrophy;
 XX neurodegenerative disease; vascular disease; cardiovascular disease;
 XX cystic fibrosis; stroke; gene therapy; zinc finger protein; ZFP.

OS Homo sapiens.

FN WO200244353-A2.

PD 06-JUN-2002.

PF 30-NOV-2001; 2001WO-US44798.

PR 30-NOV-2000; 2000US-250690P.

PA (SANG-) SANGAMO BIOSCIENCES INC.

PI Wolffe AP, Qi H;

DR WPI; 2002-527708/56.

XX New heparanase polynucleotide, useful for controlling disease states
 PT such as tumour metastasis, inflammatory diseases and allograft rejection

PS Example 3; Page 50; 72pp; English.

XX The invention relates to novel heparanase sequences, particularly novel
 CC sequences from the regulatory regions upstream and downstream of the
 CC coding region. The activity of polynucleotides of the invention may be
 CC described as, cytosolic, vasotropic, antidiabetic, anti-HIV,
 CC ophthalmological, antirheumatic, antiarthritic, antipsoriatic,
 CC antianaemic, neuroprotective, nootropic, cerebroprotective,

CC antibacterial, virucide, protozoacide, fungicide, antiinflammatory,
 CC carixant and immunosuppressive. Modulating expression of heparanase gene
 CC using constructs of the invention is useful for facilitating targeted
 CC control of disease states such as tumour metastasis, inflammatory
 CC diseases, allograft rejection, and for inhibiting processes such as cell
 CC migration, angiogenesis, and degradation of the basement membrane and/or
 CC extracellular matrix. Heparanase-targeted DNA binding domains modulates
 CC gene expression, and are useful for therapeutic or prophylactic
 CC applications, for e.g. cancer, ischaemia, diabetic retinopathy, macular
 CC degeneration, rheumatoid arthritis, psoriasis, HIV infection, sickle cell
 CC anaemia, Alzheimer's disease, muscular dystrophy, neurodegenerative
 CC diseases, vascular disease, cardiovascular disease, cystic fibrosis,
 CC stroke, and bacterial, protozoal, fungal and viral infection. Constructs
 CC of the invention may also be useful in gene therapy. The current sequence
 CC represents a finger of a six-finger ZFP (zinc finger protein), which
 CC has a target site in the human heparanase gene.

CC Sequence 7 AA;
 SQ

Query Match 100.0%; Score 36; DB 23; Length 7;
 Best Local Similarity 100.0%; Pred. No. 9.3e+05;
 Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

OY 1 RSDHLSR 7
 |||||
 1 RSDHLSR 7

Db

RESULT 34
 ABP48205
 ID ABP48205 standard; Peptide; 7 AA.
 XX
 AC ABP48205;
 XX
 DT 28-AUG-2002 (first entry)
 XX
 DE Zinc finger protein related peptide motif SEQ ID NO:229.
 XX
 KM Zinc finger protein; ZFP; DNA binding protein; zinc finger.
 XX
 OS Homo sapiens.
 OS Synthetic.
 OS WO200242459-A2.
 PN
 PD 30-MAY-2002.
 XX
 PF 20-NOV-2001; 2001WO-US43438.
 XX
 PR 20-NOV-2000; 2000US-0716637.
 XX
 PA (SANG-) SANGAMO BIOSCIENCES INC.
 XX
 PI Liu Q;
 XX
 DR WPI; 2002-500284/53.
 XX
 PT New zinc finger protein that binds to target site, useful in studying
 PT gene function and for human therapeutics and plant engineering,
 PT comprises first, second and third zinc fingers, ordered from N- to
 PT C-terminus -
 PS
 PS Example 1; Page 36; 81pp; English.

The present invention describes a zinc finger protein (I) that binds to
 CC a target site, comprising a first (F1), a second (F2), and a third (F3)
 CC zinc finger, ordered F1, F2, F3 from N-terminus to C-terminus, where the
 CC target site comprises, in 3'-5' direction, a first (S1), a second (S2),
 CC and a third (S3) target sub-site. Also described are: (1) a polypeptide
 CC (II) comprising (I); (2) a polynucleotide (III) encoding (I) or (II); and
 CC (3) designing (M) (I) involves selecting the F1 zinc finger such that
 CC it binds to the S1 target sub-site, selecting the F2 zinc finger such
 CC that it binds to the S2 target sub-site, and selecting the F3 zinc

CC finger such that it binds to the S3 target sub-site, thus designing (I)
 CC that binds to a target site. (II) is useful for recognition of triplet
 CC target sub-sites having the nucleotide G in the 5'-most position of the
 CC sub-site. (II) is useful in studying gene function, and for human
 CC therapeutics and plant engineering. (I), (II) or (III) is useful in
 CC therapeutic methods to modulate the expression of a target region within
 CC a subject. In diagnostic methods for sequence specific detection of
 CC target nucleic acid in a sample, and in assays to determine the
 CC phenotype and function of gene expression. (I) has improved affinity
 CC and specificity for their target sequences, as well as enhanced
 CC biological activity. ABQ71213 to ABQ72214 and ABP48191 to ABP51230
 CC represent DNA target sequences and zinc finger peptides which are given
 CC in the exemplification of the present invention.

CC Sequence 7 AA;
 SQ

Query Match 100.0%; Score 36; DB 23; Length 7;
 Best Local Similarity 100.0%; Pred. No. 9.3e+05;
 Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

OY 1 RSDHLSR 7
 |||||
 1 RSDHLSR 7

Db

RESULT 35
 ABP48208
 ID ABP48208 standard; Peptide; 7 AA.
 XX
 AC ABP48208;
 XX
 DT 28-AUG-2002 (first entry)
 XX
 DE Zinc finger protein related peptide motif SEQ ID NO:230.
 XX
 KM Zinc finger protein; ZFP; DNA binding protein; zinc finger.
 XX
 OS Homo sapiens.
 OS Synthetic.
 OS WO200242459-A2.
 PN
 PD 30-MAY-2002.
 XX
 PF 20-NOV-2001; 2001WO-US43438.
 XX
 PR 20-NOV-2000; 2000US-0716637.
 XX
 PA (SANG-) SANGAMO BIOSCIENCES INC.
 XX
 PI Liu Q;
 XX
 DR WPI; 2002-500284/53.
 XX
 PT New zinc finger protein that binds to target site, useful in studying
 PT gene function and for human therapeutics and plant engineering,
 PT comprises first, second and third zinc fingers, ordered from N- to
 PT C-terminus -
 PS
 PS Example 1; Page 36; 81pp; English.

The present invention describes a zinc finger protein (I) that binds to
 CC a target site, comprising a first (F1), a second (F2), and a third (F3)
 CC zinc finger, ordered F1, F2, F3 from N-terminus to C-terminus, where the
 CC target site comprises, in 3'-5' direction, a first (S1), a second (S2),
 CC and a third (S3) target sub-site. Also described are: (1) a polypeptide
 CC (II) comprising (I); (2) a polynucleotide (III) encoding (I) or (II); and
 CC (3) designing (M) (I) involves selecting the F1 zinc finger such that
 CC it binds to the S1 target sub-site, selecting the F2 zinc finger such
 CC that it binds to the S2 target sub-site, and selecting the F3 zinc
 CC finger such that it binds to the S3 target sub-site, thus designing (I)
 CC that binds to a target site. (II) is useful for recognition of triplet
 CC target sub-sites having the nucleotide G in the 5'-most position of the

CC and specificity for their target sequences, as well as enhanced
CC biological activity. ABQ7213 to ABQ7214 and ABP48191 to ABP51230
CC represent DNA target sequences and zinc finger peptides which are given
CC in the exemplification of the present invention.

XX Sequence 7 AA;

Query Match 100.0%; Score 36; DB 23; Length 7;
Best Local Similarity 100.0%; Pred. No. 9.3e+05;
Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

OY 1 RSDHLSR 7
Db 1 RSDHLSR 7

RESULT 38
ABP48235
ID ABP48235 standard; Peptide; 7 AA.

XX ABP48235;

DT 28-AUG-2002 (first entry)

DE Zinc finger protein related peptide motif SEQ ID NO:239.

XX Zinc finger protein; ZFP; DNA binding protein; zinc finger.

OS Homo sapiens.

OS Synthetic.

XX WO200242459-A2.

PD 30-MAY-2002.

PF 20-NOV-2001; 2001WO-US43438.

PR 20-NOV-2000; 2000US-0716637.

XX (SANG-) SANGAMO BIOSCIENCES INC.

XX Liu Q;

DR WPI; 2002-500284/53.

XX New zinc finger protein that binds to target site, useful in studying
PT gene function and for human therapeutics and plant engineering,
PT comprises first, second and third zinc fingers, ordered from N- to
PT C-terminus -

XX Example 1; Page 36; 81pp; English.

XX The present invention describes a zinc finger protein (I) that binds to
CC a target site, comprising a first (F1), a second (F2), and a third (F3)
CC zinc finger, ordered F1, F2, F3 from N-terminus to C-terminus, where the
CC target site comprises, in 3'-5' direction, a first (S1), a second (S2),
CC and a third (S3) target sub-site. Also described are: (i) a polypeptide
CC (II) comprising (I); (2) a polynucleotide (III) encoding (I) or (II); and
CC (3) designing (M) (I) involves selecting the F1 zinc finger such that
CC it binds to the S1 target sub-site, selecting the F2 zinc finger such
CC that it binds to the S2 target sub-site, and selecting the F3 zinc
CC finger such that it binds to the S3 target sub-site, thus designing (I)
CC that binds to a target site. (I) is useful for recognition of triplet
CC target sub-sites having the nucleotide G in the 5'-most position of the
CC sub-site. (I) is useful in studying gene function, and for human
CC therapeutics and plant engineering. (I), (II) or (III) is useful in
CC therapeutic methods to modulate the expression of a target region within
CC a subject, in diagnostic methods for sequence specific detection of
CC target nucleic acid in a sample, and in assays to determine the
CC phenotype and function of gene expression. (I) has improved affinity
CC and specificity for their target sequences, as well as enhanced
CC biological activity. ABQ71213 to ABQ72214 and ABP48191 to ABP51230
CC represent DNA target sequences and zinc finger peptides which are given

CC in the exemplification of the present invention.

XX Sequence 7 AA;

Query Match 100.0%; Score 36; DB 23; Length 7;
Best Local Similarity 100.0%; Pred. No. 9.3e+05;
Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

OY 1 RSDHLSR 7
Db 1 RSDHLSR 7

RESULT 39
ABP48250
ID ABP48250 standard; Peptide; 7 AA.

XX ABP48250;

DT 28-AUG-2002 (first entry)

DE Zinc finger protein related peptide motif SEQ ID NO:244.

XX Zinc finger protein; ZFP; DNA binding protein; zinc finger.

OS Homo sapiens.

OS Synthetic.

XX WO200242459-A2.

PD 30-MAY-2002.

PF 20-NOV-2001; 2001WO-US43438.

PR 20-NOV-2000; 2000US-0716637.

XX (SANG-) SANGAMO BIOSCIENCES INC.

XX Liu Q;

DR WPI; 2002-500284/53.

XX New zinc finger protein that binds to target site, useful in studying
PT gene function and for human therapeutics and plant engineering,
PT comprises first, second and third zinc fingers, ordered from N- to
PT C-terminus -

XX Example 1; Page 36; 81pp; English.

XX The present invention describes a zinc finger protein (I) that binds to
CC a target site, comprising a first (F1), a second (F2), and a third (F3)
CC zinc finger, ordered F1, F2, F3 from N-terminus to C-terminus, where the
CC target site comprises, in 3'-5' direction, a first (S1), a second (S2),
CC and a third (S3) target sub-site. Also described are: (i) a polypeptide
CC (II) comprising (I); (2) a polynucleotide (III) encoding (I) or (II); and
CC (3) designing (M) (I) involves selecting the F1 zinc finger such that
CC it binds to the S1 target sub-site, selecting the F2 zinc finger such
CC that it binds to the S2 target sub-site, and selecting the F3 zinc
CC finger such that it binds to the S3 target sub-site, thus designing (I)
CC that binds to a target site. (I) is useful for recognition of triplet
CC target sub-sites having the nucleotide G in the 5'-most position of the
CC sub-site. (I) is useful in studying gene function, and for human
CC therapeutics and plant engineering. (I), (II) or (III) is useful in
CC therapeutic methods to modulate the expression of a target region within
CC a subject, in diagnostic methods for sequence specific detection of
CC target nucleic acid in a sample, and in assays to determine the
CC phenotype and function of gene expression. (I) has improved affinity
CC and specificity for their target sequences, as well as enhanced
CC biological activity. ABQ71213 to ABQ72214 and ABP48191 to ABP51230
CC represent DNA target sequences and zinc finger peptides which are given
CC in the exemplification of the present invention.

XX Sequence 7 AA;

Query Match 100.0%; Score 36; DB 23; Length 7;
 Best Local Similarity 100.0%; Pred. No. 9.3e+05;
 Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 RSDHLSR 7
 Db 1 RSDHLSR 7

RESULT 40
 ABP48479
 ID ABP48479 standard; Peptide; 7 AA.
 AC ABP48479;
 DT 28-AUG-2002 (first entry)
 DE Zinc finger protein related peptide motif SEQ ID NO:420.
 XX Zinc finger protein; ZFP; DNA binding protein; zinc finger.
 XX Homo sapiens.
 OS Synthetic.
 PN WO200242459-A2.
 PD 30-MAY-2002.
 PF 20-NOV-2001; 2001WO-US43438.
 PR 20-NOV-2000; 2000US-0716637.
 XX (SANG-) SANGAMO BIOSCIENCES INC.
 PI Liu Q;
 DR WPI; 2002-500284/53.
 PT New zinc finger protein that binds to target site, useful in studying
 PT gene function and for human therapeutics and plant engineering,
 PT comprises first, second and third zinc fingers, ordered from N- to
 PT C-terminus -
 XX
 XX Example 1; Page 38; 81pp; English.
 PS The present invention describes a zinc finger protein (I) that binds to
 CC a target site, comprising a first (F1), a second (F2), and a third (F3)
 CC zinc finger, ordered F1, F2, F3 from N-terminus to C-terminus, where the
 CC target site comprises, in 3'-5' direction, a first (S1), a second (S2),
 CC and a third (S3) target subsite. Also described are: (I) a polypeptide
 CC (II) comprising (I); (2) a polynucleotide (III) encoding (I) or (II); and
 CC (3) designing (M) (I) involves selecting the F1 zinc finger such that
 CC it binds to the S1 target subsite, selecting the F2 zinc finger such
 CC that it binds to the S2 target subsite, and selecting the F3 zinc
 CC finger such that it binds to the S3 target subsite, thus designing (I)
 CC that binds to a target site. (I) is useful for recognition of triplet
 CC target subsites having the nucleotide G in the 5'-most position of the
 CC subsite. (I) is useful in studying gene function, and for human
 CC therapeutics and plant engineering. (I), (II) or (III) is useful in
 CC therapeutic methods to modulate the expression of a target region within
 CC a subject, in diagnostic methods for sequence specific detection of
 CC target nucleic acid in a sample, and in assays to determined the
 CC phenotype and function of gene expression. (I) has improved affinity
 CC and specificity for their target sequences, as well as enhanced
 CC biological activity. ABQ71213 to ABQ72214 and ABP48191 to ABP51230
 CC represent DNA target sequences and zinc finger peptides which are given
 CC in the exemplification of the present invention.
 CC
 XX Sequence 7 AA;
 XX
 Query Match 100.0%; Score 36; DB 23; Length 7;
 Best Local Similarity 100.0%; Pred. No. 9.3e+05;

Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 RSDHLSR 7
 Db 1 RSDHLSR 7

RESULT 41
 ABP48484
 ID ABP48484 standard; Peptide; 7 AA.
 AC ABP48484;
 DT 28-AUG-2002 (first entry)
 DE Zinc finger protein related peptide motif SEQ ID NO:425.
 XX Zinc finger protein; ZFP; DNA binding protein; zinc finger.
 XX Homo sapiens.
 OS Synthetic.
 PN WO200242459-A2.
 PD 30-MAY-2002.
 PF 20-NOV-2001; 2001WO-US43438.
 PR 20-NOV-2000; 2000US-0716637.
 XX (SANG-) SANGAMO BIOSCIENCES INC.
 PI Liu Q;
 DR WPI; 2002-500284/53.
 PT New zinc finger protein that binds to target site, useful in studying
 PT gene function and for human therapeutics and plant engineering,
 PT comprises first, second and third zinc fingers, ordered from N- to
 PT C-terminus -
 XX
 XX Example 1; Page 38; 81pp; English.
 PS The present invention describes a zinc finger protein (I) that binds to
 CC a target site, comprising a first (F1), a second (F2), and a third (F3)
 CC zinc finger, ordered F1, F2, F3 from N-terminus to C-terminus, where the
 CC target site comprises, in 3'-5' direction, a first (S1), a second (S2),
 CC and a third (S3) target subsite. Also described are: (I) a polypeptide
 CC (II) comprising (I); (2) a polynucleotide (III) encoding (I) or (II); and
 CC (3) designing (M) (I) involves selecting the F1 zinc finger such that
 CC it binds to the S1 target subsite, selecting the F2 zinc finger such
 CC that it binds to the S2 target subsite, and selecting the F3 zinc
 CC finger such that it binds to the S3 target subsite, thus designing (I)
 CC that binds to a target site. (I) is useful for recognition of triplet
 CC target subsites having the nucleotide G in the 5'-most position of the
 CC subsite. (I) is useful in studying gene function, and for human
 CC therapeutics and plant engineering. (I), (II) or (III) is useful in
 CC therapeutic methods to modulate the expression of a target region within
 CC a subject, in diagnostic methods for sequence specific detection of
 CC target nucleic acid in a sample, and in assays to determined the
 CC phenotype and function of gene expression. (I) has improved affinity
 CC and specificity for their target sequences, as well as enhanced
 CC biological activity. ABQ71213 to ABQ72214 and ABP48191 to ABP51230
 CC represent DNA target sequences and zinc finger peptides which are given
 CC in the exemplification of the present invention.
 CC
 XX Sequence 7 AA;
 XX
 Query Match 100.0%; Score 36; DB 23; Length 7;
 Best Local Similarity 100.0%; Pred. No. 9.3e+05;
 Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Db 1 RSDHLSR 7

RESULT 42
ABP48485
ID ABP48485 standard; Peptide; 7 AA.
XX
XX ABP48485;
AC
XX 28-AUG-2002 (first entry)
DT
XX
XX Zinc finger protein related peptide motif SEQ ID NO:426.
DE
XX Zinc finger protein; ZFP; DNA binding protein; zinc finger.
KM
XX
XX Homo sapiens.
OS
XX Synthetic.
PN WO200242459-A2.
PD 30-MAY-2002.
XX
XX 20-NOV-2001; 2001WO-US43438.
PF
XX 20-NOV-2000; 2000US-0716637.
PR
XX (SANG-) SANGAMO BIOSCIENCES INC.
PA
XX
XX Liu Q;
PI
XX WPI; 2002-500284/53.
DR
XX
XX New zinc finger protein that binds to target site, useful in studying
PT gene function and for human therapeutics and plant engineering,
PT comprises first, second and third zinc fingers, ordered from N- to
PT C-terminus -
XX
XX Example 1; Page 38; 81pp; English.
XX
XX The present invention describes a zinc finger protein (I) that binds to
CC a target site, comprising a first (F1), a second (F2), and a third (F3)
CC zinc finger, ordered F1, F2, F3 from N-terminus to C-terminus, where the
CC target site comprises, in 3'-5' direction, a first (S1), a second (S2),
CC and a third (S3) target subsite. Also described are: (1) a polypeptide
CC (II) comprising (I); (2) a polynucleotide (III) encoding (I) or (II); and
CC (3) designing (M). (I) involves selecting the F1 zinc finger such that
CC it binds to the S1 target subsite, selecting the F2 zinc finger such
CC that it binds to the S2 target subsite, and selecting the F3 zinc
CC finger such that it binds to the S3 target subsite, thus designing (I)
CC that binds to a target site. (I) is useful for recognition of triplet
CC target subsites having the nucleotide G in the 5'-most position of the
CC subsite. (I) is useful in studying gene function, and for human
CC therapeutics and plant engineering. (I), (II) or (III) is useful in
CC therapeutic methods to modulate the expression of a target region within
CC a subject, in diagnostic methods for sequence specific detection of
CC target nucleic acid in a sample, and in assays to determined the
CC phenotype and function of gene expression. (I) has improved affinity
CC and specificity for their target sequences, as well as enhanced affinity
CC biological activity. ABQ71213 to ABQ72214 and ABP48191 to ABP51230
CC represent DNA target sequences and zinc finger peptides which are given
CC in the exemplification of the present invention.
CC
XX
XX Sequence 7 AA;
SQ

Query Match 100.0%; Score 36; DB 23; Length 7;
Best Local Similarity 100.0%; Pred. No. 9.3e+05;
Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 RSDHLSR 7
Db 1 RSDHLSR 7

RESULT 43

ABP48487
ID ABP48487 standard; Peptide; 7 AA.
XX
XX ABP48487;
AC
XX 28-AUG-2002 (first entry)
DT
XX
XX Zinc finger protein related peptide motif SEQ ID NO:428.
DE
XX Zinc finger protein; ZFP; DNA binding protein; zinc finger.
KM
XX
XX Homo sapiens.
OS
XX Synthetic.
PN WO200242459-A2.
PD 30-MAY-2002.
XX
XX 20-NOV-2001; 2001WO-US43438.
PF
XX 20-NOV-2000; 2000US-0716637.
PR
XX (SANG-) SANGAMO BIOSCIENCES INC.
PA
XX
XX Liu Q;
PI
XX WPI; 2002-500284/53.
DR
XX
XX New zinc finger protein that binds to target site, useful in studying
PT gene function and for human therapeutics and plant engineering,
PT comprises first, second and third zinc fingers, ordered from N- to
PT C-terminus -
XX
XX Example 1; Page 38; 81pp; English.
XX
XX The present invention describes a zinc finger protein (I) that binds to
CC a target site, comprising a first (F1), a second (F2), and a third (F3)
CC zinc finger, ordered F1, F2, F3 from N-terminus to C-terminus, where the
CC target site comprises, in 3'-5' direction, a first (S1), a second (S2),
CC and a third (S3) target subsite. Also described are: (1) a polypeptide
CC (II) comprising (I); (2) a polynucleotide (III) encoding (I) or (II); and
CC (3) designing (M). (I) involves selecting the F1 zinc finger such that
CC it binds to the S1 target subsite, selecting the F2 zinc finger such
CC that it binds to the S2 target subsite, and selecting the F3 zinc
CC finger such that it binds to the S3 target subsite, thus designing (I)
CC that binds to a target site. (I) is useful for recognition of triplet
CC target subsites having the nucleotide G in the 5'-most position of the
CC subsite. (I) is useful in studying gene function, and for human
CC therapeutics and plant engineering. (I), (II) or (III) is useful in
CC therapeutic methods to modulate the expression of a target region within
CC a subject, in diagnostic methods for sequence specific detection of
CC target nucleic acid in a sample, and in assays to determined the
CC phenotype and function of gene expression. (I) has improved affinity
CC and specificity for their target sequences, as well as enhanced
CC biological activity. ABQ71213 to ABQ72214 and ABP48191 to ABP51230
CC represent DNA target sequences and zinc finger peptides which are given
CC in the exemplification of the present invention.
CC
XX
XX Sequence 7 AA;
SQ

Query Match 100.0%; Score 36; DB 23; Length 7;
Best Local Similarity 100.0%; Pred. No. 9.3e+05;
Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 RSDHLSR 7
Db 1 RSDHLSR 7

RESULT 44
ABP48515

ID ABP48515 standard; Peptide: 7 AA.
 AC ABP48515;
 XX
 DT 28-AUG-2002 (first entry)
 XX
 XX Zinc finger protein related peptide motif SEQ ID NO:434.
 DE
 XX Zinc finger protein; ZFP; DNA binding protein; zinc finger.
 KW
 XX Homo sapiens.
 OS
 XX Synthetic.
 PN WO200242459-A2.
 XX
 PD 30-MAY-2002.
 XX
 PF 20-NOV-2001; 2001MO-US43438.
 XX
 PR 20-NOV-2000; 2000US-0716637.
 XX
 PA (SANG-) SANGAMO BIOSCIENCES INC.
 PI
 PI Liu Q;
 DR WPI; 2002-500284/53.
 XX
 PT New zinc finger protein that binds to target site, useful in studying
 PT gene function and for human therapeutics and plant engineering,
 PT comprises first, second and third zinc fingers, ordered from N- to
 PT C-terminus -
 XX
 XX Example 1; Page 39; 81pp; English.
 XX
 CC The present invention describes a zinc finger protein (I) that binds to
 CC a target site, comprising a first (F1), a second (F2), and a third (F3)
 CC zinc finger, ordered F1, F2, F3 from N-terminus to C-terminus, where the
 CC target site comprises, in 3'-5' direction, a first (S1), a second (S2),
 CC and a third (S3) target sub-site. Also described are: (i) a polypeptide
 CC (II) comprising (I); (2) a polynucleotide (III) encoding (I) or (II); and
 CC (3) designing (M) (I) involves selecting the F1 zinc finger such that
 CC it binds to the S1 target sub-site, selecting the F2 zinc finger such
 CC that it binds to the S2 target sub-site, and selecting the F3 zinc
 CC finger such that it binds to the S3 target sub-site, thus designing (I)
 CC that binds to a target site. (I) is useful for recognition of triplet
 CC target sub-sites having the nucleotide G in the 5'-most position of the
 CC sub-site. (I) is useful in studying gene function, and for human
 CC therapeutic and plant engineering. (I), (II) or (III) is useful in
 CC therapeutic methods to modulate the expression of a target region within
 CC a subject, in diagnostic methods for sequence specific detection of
 CC target nucleic acid in a sample, and in assays to determine the
 CC phenotype and function of gene expression. (I) has improved affinity
 CC and specificity for their target sequences, as well as enhanced
 CC biological activity. ABQ71213 to ABQ72214 and ABP48191 to ABP51230
 CC represent DNA target sequences and zinc finger peptides which are given
 CC in the exemplification of the present invention.
 CC
 XX
 XX Sequence 7 AA;
 SQ
 Query Match 100.0%; Score 36; DB 23; Length 7;
 Best Local Similarity 100.0%; Pred. No. 9.3e+05;
 Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
 QY 1 RSDHLR 7
 DB 1 RSDHLR 7
 RESULT 45
 ABP48623
 ID ABP48623 standard; Peptide: 7 AA.
 AC ABP48623;

XX
 DT 28-AUG-2002 (first entry)
 XX
 DE Zinc finger protein related peptide motif SEQ ID NO:1089.
 XX
 XX Zinc finger protein; ZFP; DNA binding protein; zinc finger.
 KW
 XX Homo sapiens.
 OS
 XX Synthetic.
 PN WO200242459-A2.
 XX
 PD 30-MAY-2002.
 XX
 PF 20-NOV-2001; 2001MO-US43438.
 XX
 PR 20-NOV-2000; 2000US-0716637.
 XX
 PA (SANG-) SANGAMO BIOSCIENCES INC.
 PI
 PI Liu Q;
 DR WPI; 2002-500284/53.
 XX
 PT New zinc finger protein that binds to target site, useful in studying
 PT gene function and for human therapeutics and plant engineering,
 PT comprises first, second and third zinc fingers, ordered from N- to
 PT C-terminus -
 XX
 XX Example 1; Page 41; 81pp; English.
 XX
 CC The present invention describes a zinc finger protein (I) that binds to
 CC a target site, comprising a first (F1), a second (F2), and a third (F3)
 CC zinc finger, ordered F1, F2, F3 from N-terminus to C-terminus, where the
 CC target site comprises, in 3'-5' direction, a first (S1), a second (S2),
 CC and a third (S3) target sub-site. Also described are: (i) a polypeptide
 CC (II) comprising (I); (2) a polynucleotide (III) encoding (I) or (II); and
 CC (3) designing (M) (I) involves selecting the F1 zinc finger such that
 CC it binds to the S1 target sub-site, selecting the F2 zinc finger such
 CC that it binds to the S2 target sub-site, and selecting the F3 zinc
 CC finger such that it binds to the S3 target sub-site, thus designing (I)
 CC that binds to a target site. (I) is useful for recognition of triplet
 CC target sub-sites having the nucleotide G in the 5'-most position of the
 CC sub-site. (I) is useful in studying gene function, and for human
 CC therapeutic and plant engineering. (I), (II) or (III) is useful in
 CC therapeutic methods to modulate the expression of a target region within
 CC a subject, in diagnostic methods for sequence specific detection of
 CC target nucleic acid in a sample, and in assays to determine the
 CC phenotype and function of gene expression. (I) has improved affinity
 CC and specificity for their target sequences, as well as enhanced
 CC biological activity. ABQ71213 to ABQ72214 and ABP48191 to ABP51230
 CC represent DNA target sequences and zinc finger peptides which are given
 CC in the exemplification of the present invention.
 CC
 XX
 XX Sequence 7 AA;
 SQ
 Query Match 100.0%; Score 36; DB 23; Length 7;
 Best Local Similarity 100.0%; Pred. No. 9.3e+05;
 Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
 QY 1 RSDHLR 7
 DB 1 RSDHLR 7
 RESULT 46
 ABP48626
 ID ABP48626 standard; Peptide: 7 AA.
 AC ABP48626;
 XX
 DT 28-AUG-2002 (first entry)
 XX

KM	Zinc finger protein related peptide motif SEQ ID NO:1090.
XX	
XX	Zinc finger protein; ZFP; DNA binding protein; zinc finger.
KM	Homo sapiens.
OS	Synthetic.
XX	
PN	MO200242459-A2.
XX	
PD	30-MAY-2002.
XX	
PF	20-NOV-2001; 2001WO-US43438.
XX	
PR	20-NOV-2000; 2000US-0716637.
XX	
PA	(SANG-) SANGAMO BIOSCIENCES INC.
XX	
PT	Liu Q;
XX	
DR	WP1; 2002-500284/53.
XX	
PT	New zinc finger protein that binds to target site, useful in studying
PT	gene function and for human therapeutics and plant engineering,
PT	comprise first, second and third zinc fingers, ordered from N- to
PT	C-terminus
XX	
PS	Example 1; Page 41; 81pp; English.
XX	
CC	The present invention describes a zinc finger protein (I) that binds to
CC	a target site, comprising a first (F1), a second (F2), and a third (F3)
CC	zinc finger, ordered F1, F2, F3 from N-terminus to C-terminus, where the
CC	target site comprises, in 3'-5' direction, a first (S1), a second (S2),
CC	and a third (S3) target sub-site. Also described are: (I) a polypeptide
CC	((I)) comprising (I); (2) a polynucleotide ((II)) encoding (I) or ((II)); and
CC	((3)) designing (M) (I) involves selecting the F1 zinc finger such that
CC	it binds to the S1 target sub-site, selecting the F2 zinc finger such
CC	that it binds to the S2 target sub-site, and selecting the F3 zinc
CC	finger such that it binds to the S3 target sub-site, thus designing (I)
CC	that binds to a target site. (I) is useful for recognition of triplet
CC	target sub-sites having the nucleotide G in the 5'-most position of the
CC	sub-site. (I) is useful in studying gene function, and for human
CC	therapeutic and plant engineering. (I), (II) or ((III)) is useful in
CC	therapeutic methods to modulate the expression of a target region within
CC	a subject, in diagnostic methods for sequence specific detection of
CC	target nucleic acid in a sample, and in assays to determined the
CC	phenotype and function of gene expression. (I) has improved affinity
CC	and specificity for their target sequences, as well as enhanced
CC	biological activity. ABQ71213 to ABQ72214 and ABP48191 to ABP51330
CC	represent DNA target sequences and zinc finger peptides which are given
CC	in the exemplification of the present invention.
XX	
SQ	Sequence 7 AA:
XX	
Query Match	100.0%; Score 36; DB 23; Length 7;
Best Local Similarity	100.0%; Pred. No. 9.3e+05;
Matches	7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
OY	1 RSDHLSR 7
Dd	1 RSDHLSR 7
RESULT 47	
ID	ABP48629 standard; Peptide; 7 AA.
XX	
AC	ABP48629;
XX	
DT	28-AUG-2002 (first entry)
XX	
DE	Zinc finger protein related peptide motif SEQ ID NO:1091.
XX	
KM	Zinc finger protein; ZFP; DNA binding protein; zinc finger.

XX Homo sapiens.
OS Synthetic.
XX
XX WO200242455-A2.
PN
XX 30-MAY-2002.
PD
XX
XX 20-NOV-2001; 2001WO-US43438.
PF
XX 20-NOV-2000; 2000US-0716637.
PR
XX (SANG-) SANGAMO BIOSCIENCES INC.
PA
XX Liu Q;
PI
XX WPI; 2002-500284/53.
DR
XX
XX New zinc finger protein that binds to target site, useful in studying
PT gene function and for human therapeutics and plant engineering,
PT comprises first, second and third zinc fingers, ordered from N- to
PT C-terminus -
PT
XX
XX Example 1; Page 41; 81pp; English.
PS
XX
XX The present invention describes a zinc finger protein (I) that binds to
CC a target site, comprising a first (F1), a second (F2), and a third (F3)
CC zinc finger, ordered F1, F2, F3 from N-terminus to C-terminus, where the
CC target site comprises, in 3'-5' direction, a first (S1), a second (S2),
CC and a third (S3) target sub-site. Also described are: (1) a polypeptide
CC (II) comprising (I); (2) a polynucleotide (III) encoding (I) or (II); and
CC (3) designing (M) (1) involves selecting the F1 zinc finger such that
CC it binds to the S1 target sub-site, selecting the F2 zinc finger such
CC that it binds to the S2 target sub-site, and selecting the F3 zinc
CC finger such that it binds to the S3 target sub-site, thus designing (I)
CC that binds to a target site. (I) is useful for recognition of triplet
CC target sub-sites having the nucleotide G in the 5'-most position of the
CC sub-site. (I) is useful in studying gene function, and for human
CC therapeutics and plant engineering. (I), (II) or (III) is useful in
CC therapeutic methods to modulate the expression of a target region within
CC a subject, in diagnostic methods for sequence specific detection of
CC a target nucleic acid in a sample, and in assays to determine the
CC phenotype and function of gene expression. (I) has improved affinity
CC and specificity for their target sequences, as well as enhanced
CC biological activity. ABQ71213 to ABQ72214 and ABP48191 to ABP51230
CC represent DNA target sequences and zinc finger peptides which are given
CC in the exemplification of the present invention.
CC
XX
XX Sequence 7 AA;
SQ
XX
XX Query Match 100.0%; Score 36; DB 23; Length 7;
XX Best Local Similarity 100.0%; Pred. No. 9.3e+05;
XX Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0.
XX
XX 1 RSDHLR 7
XX 1 RSDHLR 7
XX
XX
XX RESULT 48
XX ABP48634
XX ID ABP48634 standard; peptide; 7 AA.
XX
XX ABP48634;
XX
XX 28-AUG-2002 (first entry)
DT
XX
XX Zinc finger protein related peptide motif SEQ ID NO:888.
DE
XX
XX Zinc finger protein; ZFP, DNA binding protein; zinc finger.
KW
XX
XX Homo sapiens.
XX Synthetic.
OS

XX	PN	WO200242459-A2.
XX	PD	30-MAY-2002.
XX	PF	20-NOV-2001; 2001WO-US43438.
XX	PR	20-NOV-2000; 2000US-0716637.
XX	PA	(SANG-) SANGAMO BIOSCIENCES INC.
XX	EI	Liu Q;
XX	KX	WPI; 2002-500284/53.
PT	PT	New zinc finger protein that binds to target site, useful in studying gene function and for human therapeutics and plant engineering,
PT	PT	comprises first, second and third zinc fingers, ordered from N- to C-terminus
XX	XX	
XX	XX	Example 1; Page 41; 81pp; English.
CC	XX	The present invention describes a zinc finger protein (I) that binds to a target site, comprising a first (F1), a second (F2), and a third (F3) zinc finger, ordered F1, F2, F3 from N-terminus to C-terminus, where the target site comprises, in 3'-5' direction, a first (S1), a second (S2), and a third (S3) target subite. Also described are: (I) a polypeptide (II) comprising (I); (2) a polynucleotide (III) encoding (I) or (II); and (3) designing (M) (I) involves selecting the F1 zinc finger such that it binds to the S1 target subite, selecting the F2 zinc finger such that it binds to the S2 target subite, and selecting the F3 zinc finger such that it binds to the S3 target subite, thus designing (I) that binds to a target site. (I) is useful for recognition of triplet target subites having the nucleotide G in the 5'-most position of the subite. (I) is useful in studying gene function, and for human therapeutics and plant engineering. (I) (II) or (III) is useful in therapeutic methods to modulate the expression of a target region within a subject, in diagnostic methods for sequence specific detection of a target nucleic acid in a sample, and in assays to determined the phenotype and function of gene expression. (I) has improved affinity and specificity for their target sequences, as well as enhanced biological activity. ABQ71213 to ABQ72214 and ABP48191 to ABP51230 represent DNA target sequences and zinc finger peptides which are given in the exemplification of the present invention.
CC	XX	
CC	XX	Sequence 7 AA:
CC	XX	
CC	XX	Query Match 100.0%; Score 36; DB 23; Length 7;
CC	XX	Best Local Similarity 100.0%; Pred. No. 9.3e+05;
CC	XX	Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
CY	1	RSDHLR 7
DG	1	RSDHLR 7
DE	ABP48638 standard; Peptide; 7 AA.	
AC	ABP48638;	
DT	28-AUG-2002 (first entry)	
DE	Zinc finger protein related peptide motif SEQ ID NO:1094.	
XX	Zinc finger protein; ZFP; DNA binding protein; zinc finger.	
OS	Homo sapiens.	
OS	Synthetic.	
XX	WO200242459-A2.	
XX	PN	

30-MAY-2002.
 20-NOV-2001; 2001WO-US43438.
 20-NOV-2000; 2000US-0716637.
 (SANG-) SANGAMO BIOSCIENCES INC.
 Liu Q;
 WPI; 2002-500284/53.
 New zinc finger protein that binds to target site, useful in studying
 gene function and for human therapeutics and plant engineering,
 comprises first, second and third zinc fingers, ordered from N- to
 C-terminus -
 Example 1; Page 41; 81pp; English.
 The present invention describes a zinc finger protein (I) that binds to
 a target site, comprising a first (F1), a second (F2), and a third (F3)
 zinc finger, ordered F1, F2, F3 from N-terminus to C-terminus, where the
 target site comprises, in 3'-5' direction, a first (S1), a second (S2),
 and a third (S3) target sub-site. Also described are: (i) a polypeptide
 (II) comprising (I); (2) a polynucleotide (III) encoding (I) or (II); and
 (3) designing (M) (I) involves selecting the F1 zinc finger such that
 it binds to the S1 target sub-site, selecting the F2 zinc finger such
 that it binds to the S2 target sub-site, and selecting the F3 zinc
 finger such that it binds to the S3 target sub-site, thus designing (I)
 that binds to a target site. (I) is useful for recognition of triplet
 target sub-sites having the nucleotide G in the 5'-most position of the
 sub-site. (I) is useful in studying gene function, and for human
 therapeutics and plant engineering. (I), (II) or (III) is useful in
 therapeutic methods to modulate the expression of a target region within
 a subject, in diagnostic methods for sequence specific detection of
 target nucleic acid in a sample, and in assays to determine the
 phenotype and function of gene expression. (I) has improved affinity
 and specificity for their target sequences, as well as enhanced
 biological activity. ABQ71213 to ABQ72214 and ABP48191 to ABP12130
 represent DNA target sequences and zinc finger peptides which are given
 in the exemplification of the present invention.
 Sequence 7 AA;
 SQ
 Query Match 100.0%; Score 36; DB 23; Length 7;
 Best Local Similarity 100.0%; Pred. No. 9.3e+05;
 Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0
 QY 1 RSDHLSR 7
 Db 1 RSDHLSR 7
 RESULT 50
 ID ABP48770 standard; Peptide; 7 AA.
 ABP48770;
 28-AUG-2002 (first entry)
 Zinc finger protein related peptide motif SEQ ID NO.1138.
 Zinc finger protein; ZFP; DNA binding protein; zinc finger.
 Homo sapiens.
 Synthetic.
 WO200242459-A2.
 30-MAY-2002.
 20-NOV-2001; 2001WO-US43438.

XX WPI, 2002-500284/53.
 DR New zinc finger protein that binds to target site, useful in studying
 XX gene function and for human therapeutics and plant engineering,
 PT comprises first, second and third zinc fingers, ordered from N- to
 PT C-terminus -
 XX
 XX Example 1; Page 43; 81pp; English.
 PS
 CC The present invention describes a zinc finger protein (I) that binds to
 CC a target site, comprising a first (F1), a second (F2), and a third (F3)
 CC zinc finger, ordered F1, F2, F3 from N-terminus to C-terminus, where the
 CC target site comprises, in 3'-5' direction, a first (S1), a second (S2),
 CC and a third (S3) target sub-site. Also described are: (I) a polypeptide
 CC (II) comprising (I); (2) a polynucleotide (III) encoding (I) or (II); and
 CC (3) designing (M) (I) involves selecting the F1 zinc finger such that
 CC it binds to the S1 target sub-site, selecting the F2 zinc finger such
 CC that it binds to the S2 target sub-site, and selecting the F3 zinc
 CC finger such that it binds to the S3 target sub-site, thus designing (I)
 CC that binds to a target site. (I) is useful for recognition of triplet
 CC target sub-sites having the nucleotide G in the 5'-most position of the
 CC sub-site. (I) is useful in studying gene function, and for human
 CC therapeutics and plant engineering. (I), (II) or (III) is useful in
 CC therapeutic methods to modulate the expression of a target region within
 CC a subject, in diagnostic methods for sequence specific detection of
 CC target nucleic acid in a sample, and in assays to determine the
 CC phenotype and function of gene expression. (I) has improved affinity
 CC and specificity for their target sequences, as well as enhanced
 CC biological activity. ABQ71213 to ABQ72214 and ABP48191 to ABP51230
 CC represent DNA target sequences and zinc finger peptides which are given
 CC in the exemplification of the present invention.
 CC
 SO Sequence 7 AA;
 Query Match 100.0%; Score 36; DB 23; Length 7;
 Best Local Similarity 100.0%; Pred. No. 9.3e+05;
 Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
 QY 1 RSDHLR 7
 Db 1 RSDHLR 7
 RESULT 53
 ID ABP48893
 AC ABP48893; standard; Peptide; 7 AA.
 XX
 DT 28-AUG-2002 (first entry)
 DE Zinc finger protein related peptide motif SEQ ID NO:1179.
 XX
 XX Zinc finger protein related peptide motif SEQ ID NO:1179.
 KM Zinc finger protein; ZFP; DNA binding protein; zinc finger.
 XX
 OS Homo sapiens.
 OS Synthetic.
 OS
 PN WO200242459-A2.
 PD 30-MAY-2002.
 PF 20-NOV-2001; 2001WO-US43438.
 XX
 XX 20-NOV-2000; 2000US-0716637.
 XX (SANG-) SANGAMO BIOSCIENCES INC.
 PA
 PI Liu Q;
 XX
 DR WPI, 2002-500284/53.
 XX

PT New zinc finger protein that binds to target site, useful in studying
 PT gene function and for human therapeutics and plant engineering,
 PT comprises first, second and third zinc fingers, ordered from N- to
 PT C-terminus -
 XX
 XX Example 1; Page 43; 81pp; English.
 PS
 CC The present invention describes a zinc finger protein (I) that binds to
 CC a target site, comprising a first (F1), a second (F2), and a third (F3)
 CC zinc finger, ordered F1, F2, F3 from N-terminus to C-terminus, where the
 CC target site comprises, in 3'-5' direction, a first (S1), a second (S2),
 CC and a third (S3) target sub-site. Also described are: (I) a polypeptide
 CC (II) comprising (I); (2) a polynucleotide (III) encoding (I) or (II); and
 CC (3) designing (M) (I) involves selecting the F1 zinc finger such that
 CC it binds to the S1 target sub-site, selecting the F2 zinc finger such
 CC that it binds to the S2 target sub-site, and selecting the F3 zinc
 CC finger such that it binds to the S3 target sub-site, thus designing (I)
 CC that binds to a target site. (I) is useful for recognition of triplet
 CC target sub-sites having the nucleotide G in the 5'-most position of the
 CC sub-site. (I) is useful in studying gene function, and for human
 CC therapeutics and plant engineering. (I), (II) or (III) is useful in
 CC therapeutic methods to modulate the expression of a target region within
 CC a subject, in diagnostic methods for sequence specific detection of
 CC target nucleic acid in a sample, and in assays to determine the
 CC phenotype and function of gene expression. (I) has improved affinity
 CC and specificity for their target sequences, as well as enhanced
 CC biological activity. ABQ71213 to ABQ72214 and ABP48191 to ABP51230
 CC represent DNA target sequences and zinc finger peptides which are given
 CC in the exemplification of the present invention.
 CC
 SO Sequence 7 AA;
 Query Match 100.0%; Score 36; DB 23; Length 7;
 Best Local Similarity 100.0%; Pred. No. 9.3e+05;
 Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
 QY 1 RSDHLR 7
 Db 1 RSDHLR 7
 RESULT 54
 ID ABP48953
 AC ABP48953; standard; Peptide; 7 AA.
 XX
 DT 28-AUG-2002 (first entry)
 DE Zinc finger protein related peptide motif SEQ ID NO:1199.
 XX
 XX Zinc finger protein related peptide motif SEQ ID NO:1199.
 KM Zinc finger protein; ZFP; DNA binding protein; zinc finger.
 XX
 OS Homo sapiens.
 OS Synthetic.
 OS
 PN WO200242459-A2.
 PD 30-MAY-2002.
 PF 20-NOV-2001; 2001WO-US43438.
 XX
 XX 20-NOV-2000; 2000US-0716637.
 XX (SANG-) SANGAMO BIOSCIENCES INC.
 PA
 PI Liu Q;
 XX
 DR WPI, 2002-500284/53.
 XX
 XX New zinc finger protein that binds to target site, useful in studying
 PT gene function and for human therapeutics and plant engineering,
 PT comprises first, second and third zinc fingers, ordered from N- to

PT C-terminus -
XX
PS Example 1; Page 44; 81pp; English.

XX
XX The present invention describes a zinc finger protein (I) that binds to
XX a target site, comprising a first (F1), a second (F2), and a third (F3)
XX zinc finger, ordered F1, F2, F3 from N-terminus to C-terminus, where the
XX target site comprises, in 3'-5' direction, a first (S1), a second (S2),
XX and a third (S3) target sub-site. Also described are: (1) a polypeptide
XX (II) comprising (I); (2) a polynucleotide (III) encoding (I) or (II); and
XX (3) designing (M) (I) involves selecting the F1 zinc finger such that
XX it binds to the S1 target sub-site, selecting the F2 zinc finger such
XX that it binds to the S2 target sub-site, and selecting the F3 zinc
XX finger such that it binds to the S3 target sub-site, thus designing (I)
XX that binds to a target site. (I) is useful for recognition of triplet
XX target sub-sites having the nucleotide G in the 5'-most position of the
XX sub-site. (I) is useful in studying gene function, and for human
XX therapeutics and Plant engineering. (II), (III) or (III) is useful in
XX therapeutic methods to modulate the expression of a target region within
XX a subject, in diagnostic methods for sequence specific detection of
XX target nucleic acid in a sample, and in assays to determined the
XX phenotype and function of gene expression. (I) has improved affinity
XX and specificity for their target sequences, as well as enhanced
XX biological activity. ABQ71213 to ABQ72214 and ABP48191 to ABP51230
XX represent DNA target sequences and zinc finger peptides which are given
XX in the exemplification of the present invention.

XX
XX Sequence 7 AA:

SQ
XX
XX

Query Match 100.0%; Score 36; DB 23; Length 7;
Best Local Similarity 100.0%; Pred. No. 9.3e+05;
Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0.

OY 1 RSDHLR 7
1 RSDHLR 7

Db

RESULT 55
ABP48973
XX ABP48973 standard; Peptide; 7 AA.
XX AC ABP48973;
XX DT 28-AUG-2002 (first entry)
XX DE Zinc finger protein related peptide motif SEQ ID NO:1001.
XX EW Zinc finger protein; ZFP, DNA binding protein; zinc finger.
XX OS Homo sapiens.
XX OS Synthetic.
XX PM WO200242459-A2.
XX PD 30-MAY-2002.
XX PF 20-NOV-2001; 2001MO-US43438.
XX PR 20-NOV-2000; 2000US-0716637.
XX PA (SANG-) SANGMO BIOSCIENCES INC.
XX PI Liu Q;
XX DR WPI, 2002-500284/53.
XX
XX New zinc finger protein that binds to target site, useful in studying
XX gene function and for human therapeutics and plant engineering,
XX comprises first, second and third zinc fingers, ordered from N- to
XX C-terminus -
XX
XX Example 1; Page 44; 81pp; English

CC The present invention describes a zinc finger protein (I) that binds to
CC a target site, comprising a first (F1), a second (F2), and a third (F3)
CC zinc finger, ordered F1, F2, F3 from N-terminus to C-terminus, where the
CC target site comprises, in 3',-5' direction, a first (S1), a second (S2),
CC and a third (S3) target sub-site. Also described are: (I) a polypeptide
CC (II) comprising (I); (2) a polynucleotide (III) encoding (I) or (II); and
CC (3) designing (M) (I) involves selecting the F1 zinc finger such that
CC it binds to the S1 target sub-site, selecting the F2 zinc finger such
CC that it binds to the S2 target sub-site, and selecting the F3 zinc
CC finger such that it binds to the S3 target sub-site, thus designing (I)
CC that binds to a target site. (I) is useful for recognition of triplet
CC target sub-sites having the nucleotide G in the 5'-most position of the
CC sub-site. (I) is useful in studying gene function, and for human
CC therapeutics and plant engineering. (I), (II) or (III) is useful in
CC therapeutic methods to modulate the expression of a target region within
CC a subject, in diagnostic methods for sequence specific detection of
CC target nucleic acid in a sample, and in assays to determined the
CC phenotype and function of gene expressions. (I) has improved affinity
CC and specificity for their target sequences, as well as enhanced
CC biological activity. ABG71213 to ABG72214 and ABP48191 to ABP51230
CC represent DNA target sequences and zinc finger peptides which are given
CC in the exemplification of the present invention.

CC XX
CC SQ Sequence 7 AA;
CC
CC Query Match 100.0%; Score 36; DB 23; Length 7;
CC Best Local Similarity 100.0%; Pred. No. 9.3e+05;
CC Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0.

CC
CC QY 1 RSDHLSR 7
CC |||||
CC Db 1 RSDHLSR 7

CC
CC RESULT 56
CC ID ABP48977
CC ID ABP48977 standard; Peptide: 7 AA.
CC XX
CC AC ABP48977:
CC DT 28-AUG-2002 (first entry)
CC XX
CC DE Zinc finger protein related peptide motif SEQ ID NO:1207.
CC XX
CC KW Zinc finger protein; ZFP, DNA binding protein; zinc finger.
CC XX
CC OS Homo sapiens.
CC XX Synthetic.
CC OS
CC PN WO200242459-A2.
CC XX
CC PD 30-MAY-2002.
CC XX
CC PF 20-NOV-2001; 2001WO-US43438.
CC XX
CC PR 20-NOV-2000; 2000US-0716637.
CC XX
CC PA (SANG-) SANGAMO BIOSCIENCES INC.
CC XX
CC PI Liu Q;
CC XX
CC DR WPI; 2002-500284/53.
CC XX
CC PT New zinc finger protein that binds to target site, useful in studying
CC PT gene function and for human therapeutics and plant engineering, to
CC PT comprises first, second and third zinc fingers, ordered from N-
CC PT C-terminus -
CC XX
CC PS Example 1; Page 44; 81pp; English.
CC XX
CC CC The present invention describes a zinc finger protein (I) that binds to
CC a target site, comprising a first (F1), a second (F2), and a third (F3)

CC zinc finger, ordered F1, F2, F3 from N-terminus to C-terminus, where the
CC target site comprises, in 3'-5' direction, a first (S1), a second (S2),
CC and a third (S3) target subsequence. Also described are: (I) a polypeptide
CC (II) comprising (I); (2) a polynucleotide (III) encoding (I) or (II); and
CC (3) designing (W) (I) involves selecting the F1 zinc finger such that
CC it binds to the S1 target subsequence, selecting the F2 zinc finger such
CC that it binds to the S2 target subsequence, and selecting the F3 zinc
CC finger such that it binds to the S3 target subsequence, thus designing (I)
CC target subsequence having the nucleotide G in the 5'-most position of the
CC subsequence. (I) is useful in studying gene function, and for human
CC therapeutic methods to modulate the expression of a target region within
CC a subject, in diagnostic methods for sequence specific detection of
CC target nucleic acid in a sample, and in assays to determine the
CC phenotype and function of gene expression. (I) has improved affinity
CC and specificity for their target sequences, as well as enhanced
CC biological activity. ABQ71213 to ABQ72214 and ABP48191 to ABP51230
CC represent DNA target sequences and zinc finger peptides which are given
CC in the exemplification of the present invention.

XX Sequence 7 AA;

XX Query Match 100.0%; Score 36; DB 23; Length 7;

XX Best Local Similarity 100.0%; Pred. No. 9.3e+05; Mismatches 0; Indels 0; Gaps 0;

XX Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

OY 1 RSDHLSR 7

DB 1 RSDHLSR 7

RESULT 57

ABP49013 ABP49013 standard; Peptide; 7 AA.

XX ABP49013;

XX 28-AUG-2002 (first entry)

DE Zinc finger protein related peptide motif SEQ ID NO:1219.

XX Zinc finger protein; ZFP; DNA binding protein; zinc finger.

XX Homo sapiens.

OS Synthetic.

XX MO200242459-A2.

XX 30-MAY-2002.

XX 20-NOV-2001; 2001WO-US43438.

XX 20-NOV-2000; 2000US-0716637.

XX (SANG-) SANGAMO BIOSCIENCES INC.

XX Liu Q;

XX WPI; 2002-500284/53.

XX New zinc finger protein that binds to target site, useful in studying

XX gene function and for human therapeutics and plant engineering.

XX C-terminus -

XX Example 1; Page 44; 81pp; English.

XX The present invention describes a zinc finger protein (I) that binds to
CC a target site, comprising a first (F1), a second (F2), and a third (F3)
CC zinc finger, ordered F1, F2, F3 from N-terminus to C-terminus, where the
CC target site comprises, in 3'-5' direction, a first (S1), a second (S2),
CC and a third (S3) target subsequence. Also described are: (I) a polypeptide

CC (II) comprising (I); (2) a polynucleotide (III) encoding (I) or (II); and
CC (3) designing (W) (I) involves selecting the F1 zinc finger such that
CC it binds to the S1 target subsequence, selecting the F2 zinc finger such
CC that it binds to the S2 target subsequence, and selecting the F3 zinc
CC finger such that it binds to the S3 target subsequence, thus designing (I)
CC target subsequence having the nucleotide G in the 5'-most position of the
CC subsequence. (I) is useful in studying gene function, and for human
CC therapeutic methods to modulate the expression of a target region within
CC a subject, in diagnostic methods for sequence specific detection of
CC target nucleic acid in a sample, and in assays to determine the
CC phenotype and function of gene expression. (I) has improved affinity
CC and specificity for their target sequences, as well as enhanced
CC biological activity. ABQ71213 to ABQ72214 and ABP48191 to ABP51230
CC represent DNA target sequences and zinc finger peptides which are given
CC in the exemplification of the present invention.

XX Sequence 7 AA;

XX Query Match 100.0%; Score 36; DB 23; Length 7;

XX Best Local Similarity 100.0%; Pred. No. 9.3e+05; Mismatches 0; Indels 0; Gaps 0;

XX Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

OY 1 RSDHLSR 7

DB 1 RSDHLSR 7

RESULT 58

ABP49016 ABP49016 standard; Peptide; 7 AA.

XX ABP49016;

XX 28-AUG-2002 (first entry)

DE Zinc finger protein related peptide motif SEQ ID NO:1220.

XX Zinc finger protein; ZFP; DNA binding protein; zinc finger.

XX Homo sapiens.

OS Synthetic.

XX MO200242459-A2.

XX 30-MAY-2002.

XX 20-NOV-2001; 2001WO-US43438.

XX 20-NOV-2000; 2000US-0716637.

XX (SANG-) SANGAMO BIOSCIENCES INC.

XX Liu Q;

XX WPI; 2002-500284/53.

XX New zinc finger protein that binds to target site, useful in studying

XX gene function and for human therapeutics and plant engineering.

XX C-terminus -

XX Example 1; Page 44; 81pp; English.

XX The present invention describes a zinc finger protein (I) that binds to
CC a target site, comprising a first (F1), a second (F2), and a third (F3)
CC zinc finger, ordered F1, F2, F3 from N-terminus to C-terminus, where the
CC target site comprises, in 3'-5' direction, a first (S1), a second (S2),
CC and a third (S3) target subsequence. Also described are: (I) a polypeptide
CC (II) comprising (I); (2) a polynucleotide (III) encoding (I) or (II); and
CC (3) designing (W) (I) involves selecting the F1 zinc finger such that
CC it binds to the S1 target subsequence, selecting the F2 zinc finger such

CC that it binds to the S2 target subsite, and selecting the F3 zinc
CC finger such that it binds to the S3 target subsite, thus designing (I)
CC that binds to a target site. (I) is useful for recognition of triplet
CC target subsites having the nucleotide G in the 5'-most position of the
CC subsite. (I) is useful in studying gene function, and for human
CC therapeutics and plant engineering. (I), (II) or (III) is useful in
CC therapeutic methods to modulate the expression of a target region within
CC a subject, in diagnostic methods for sequence specific detection of
CC target nucleic acid in a sample, and in assays to determine the
CC phenotype and function of gene expression. (I) has improved affinity
CC and specificity for their target sequences, as well as enhanced
CC biological activity. ABQ71213 to ABQ72214 and ABP48191 to ABP51230
CC represent DNA target sequences and zinc finger peptides which are given
CC in the exemplification of the present invention.

XX SQ Sequence 7 AA;
XX
XX Query Match 100.0%; Score 36; DB 23; Length 7;
XX Best Local Similarity 100.0%; Pred. No. 9.3e+05;
Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 RSDHLR 7
DB 1 RSDHLR 7

RESULT 59

ABP49028
ID ABP49028 standard; Peptide; 7 AA.

AC ABP49028;

DT 28-AUG-2002 (first entry)

DE Zinc finger protein related peptide motif SEQ ID NO:1224.

XX Zinc finger protein; ZFP; DNA binding protein; zinc finger.

OS Homo sapiens.

OS Synthetic.

XX WO200242459-A2.

XX 30-MAY-2002.

XX 20-NOV-2001; 2001WO-US43438.

XX 20-NOV-2000; 2000US-0716637.

XX (SANG-) SANGAMO BIOSCIENCES INC.

XX Liu Q;

XX WPI; 2002-500284/53.

XX New zinc finger protein that binds to target site, useful in studying
XX gene function and for human therapeutics and plant engineering,
XX comprises first, second and third zinc fingers, ordered from N- to
XX C-terminus -

XX Example 1; Page 45; 81pp; English.

XX The present invention describes a zinc finger protein (I) that binds to
XX a target site, comprising a first (F1), a second (F2), and a third (F3)
XX zinc finger, ordered F1, F2, F3 from N-terminus to C-terminus, where the
XX target site comprises, in 3'-5' direction, a first (S1), a second (S2),
XX and a third (S3) target subsite. Also described are: (i) a polypeptide
XX (II) comprising (I); (2) a polynucleotide (III) encoding (I) or (II); and
XX (3) designing (W) (I) involves selecting the F1 zinc finger such that
XX it binds to the S1 target subsite, selecting the F2 zinc finger such
XX that it binds to the S2 target subsite, and selecting the F3 zinc
XX finger such that it binds to the S3 target subsite, thus designing (I)
XX that binds to a target site. (I) is useful for recognition of triplet

CC target subsites having the nucleotide G in the 5'-most position of the
CC subsite. (I) is useful in studying gene function, and for human
CC therapeutics and plant engineering. (I), (II) or (III) is useful in
CC therapeutic methods to modulate the expression of a target region within
CC a subject, in diagnostic methods for sequence specific detection of
CC target nucleic acid in a sample, and in assays to determine the
CC phenotype and function of gene expression. (I) has improved affinity
CC and specificity for their target sequences, as well as enhanced
CC biological activity. ABQ71213 to ABQ72214 and ABP48191 to ABP51230
CC represent DNA target sequences and zinc finger peptides which are given
CC in the exemplification of the present invention.

XX SQ Sequence 7 AA;
XX
XX Query Match 100.0%; Score 36; DB 23; Length 7;
XX Best Local Similarity 100.0%; Pred. No. 9.3e+05;
Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 RSDHLR 7
DB 1 RSDHLR 7

RESULT 60

ABP49031
ID ABP49031 standard; Peptide; 7 AA.

AC ABP49031;

DT 28-AUG-2002 (first entry)

DE Zinc finger protein related peptide motif SEQ ID NO:1225.

XX Zinc finger protein; ZFP; DNA binding protein; zinc finger.

OS Homo sapiens.

OS Synthetic.

XX WO200242459-A2.

XX 30-MAY-2002.

XX 20-NOV-2001; 2001WO-US43438.

XX 20-NOV-2000; 2000US-0716637.

XX (SANG-) SANGAMO BIOSCIENCES INC.

XX Liu Q;

XX WPI; 2002-500284/53.

XX New zinc finger protein that binds to target site, useful in studying
XX gene function and for human therapeutics and plant engineering,
XX comprises first, second and third zinc fingers, ordered from N- to
XX C-terminus -

XX Example 1; Page 45; 81pp; English.

XX The present invention describes a zinc finger protein (I) that binds to
XX a target site, comprising a first (F1), a second (F2), and a third (F3)
XX zinc finger, ordered F1, F2, F3 from N-terminus to C-terminus, where the
XX target site comprises, in 3'-5' direction, a first (S1), a second (S2),
XX and a third (S3) target subsite. Also described are: (i) a polypeptide
XX (II) comprising (I); (2) a polynucleotide (III) encoding (I) or (II); and
XX (3) designing (W) (I) involves selecting the F1 zinc finger such that
XX it binds to the S1 target subsite, selecting the F2 zinc finger such
XX that it binds to the S2 target subsite, and selecting the F3 zinc
XX finger such that it binds to the S3 target subsite, thus designing (I)
XX that binds to a target site. (I) is useful for recognition of triplet
XX target subsites having the nucleotide G in the 5'-most position of the
XX subsite. (I) is useful in studying gene function, and for human
XX therapeutics and plant engineering. (I), (II) or (III) is useful in

CC therapeutic methods to modulate the expression of a target region within
 CC a subject, in diagnostic methods for sequence specific detection of
 CC target nucleic acid in a sample, and in assays to determine the
 CC phenotype and function of gene expression, (I) has improved affinity
 CC and specificity for their target sequences, as well as enhanced
 CC biological activity. ABQ71213 to ABQ72214 and ABP48191 to ABP51230
 CC represent DNA target sequences and zinc finger peptides which are given
 CC in the exemplification of the present invention.

XX Sequence 7 AA;

Query Match 100.0%; Score 36; DB 23; Length 7;
 Best Local Similarity 100.0%; Pred. No. 9.3e+05;
 Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 RSDHLSR 7
 Db 1 RSDHLSR 7

RESULT 61

ABP49058 ID ABP49058 standard; Peptide; 7 AA.

AC ABP49058;

DT 28-AUG-2002 (first entry)

DE Zinc finger protein related peptide motif SEQ ID NO:1234.

KM Zinc finger protein; ZFP; DNA binding protein; zinc finger.

OS Homo sapiens.

OS Synthetic.

FN WO200242459-A2.

PD 30-MAY-2002.

PF 20-NOV-2001; 2001WO-US43438.

PR 20-NOV-2000; 2000US-0716637.

PA (SANG-) SANGAMO BIOSCIENCES INC.

PI Liu Q;

WP; 2002-500284/53.

PT New zinc finger protein that binds to target site, useful in studying
 PT gene function and for human therapeutics and plant engineering,
 PT comprises first, second and third zinc fingers, ordered from N- to
 PT C-terminus -

PS Example 1; Page 45; 81pp; English.

CC The present invention describes a zinc finger protein (I) that binds to
 CC a target site, comprising a first (F1), a second (F2), and a third (F3)
 CC zinc finger, ordered F1, F2, F3 from N-terminus to C-terminus, where the
 CC target site comprises, in 3'-5' direction, a first (S1), a second (S2),
 CC and a third (S3) target subsequence. Also described are: (i) a polypeptide
 CC (II) comprising (I); (2) a polynucleotide (III) encoding (I) or (II); and
 CC (3) designing (M) (I) involves selecting the F1 zinc finger such that
 CC it binds to the S1 target subsequence, selecting the F2 zinc finger such
 CC that it binds to the S2 target subsequence, and selecting the F3 zinc
 CC finger such that it binds to the S3 target subsequence, thus designing (I)
 CC that binds to a target site. (I) is useful for recognition of triplet
 CC target subsequences having the nucleotide G in the 5'-most position of the
 CC subsequence. (I) is useful in studying gene function, and for human
 CC therapeutics and plant engineering. (I), (II) or (III) is useful in
 CC therapeutic methods to modulate the expression of a target region within
 CC a subject, in diagnostic methods for sequence specific detection of
 CC target nucleic acid in a sample, and in assays to determine the

CC phenotype and function of gene expression. (I) has improved affinity
 CC and specificity for their target sequences, as well as enhanced
 CC biological activity. ABQ71213 to ABQ72214 and ABP48191 to ABP51230
 CC represent DNA target sequences and zinc finger peptides which are given
 CC in the exemplification of the present invention.

XX Sequence 7 AA;

Query Match 100.0%; Score 36; DB 23; Length 7;
 Best Local Similarity 100.0%; Pred. No. 9.3e+05;
 Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 RSDHLSR 7
 Db 1 RSDHLSR 7

RESULT 62

ABP49080 ID ABP49080 standard; Peptide; 7 AA.

AC ABP49080;

DT 28-AUG-2002 (first entry)

DE Zinc finger protein related peptide motif SEQ ID NO:832.

KM Zinc finger protein; ZFP; DNA binding protein; zinc finger.

OS Homo sapiens.

OS Synthetic.

FN WO200242459-A2.

PD 30-MAY-2002.

PF 20-NOV-2001; 2001WO-US43438.

PR 20-NOV-2000; 2000US-0716637.

PA (SANG-) SANGAMO BIOSCIENCES INC.

PI Liu Q;

WP; 2002-500284/53.

PT New zinc finger protein that binds to target site, useful in studying
 PT gene function and for human therapeutics and plant engineering,
 PT comprises first, second and third zinc fingers, ordered from N- to
 PT C-terminus -

PS Example 1; Page 45; 81pp; English.

CC The present invention describes a zinc finger protein (I) that binds to
 CC a target site, comprising a first (F1), a second (F2), and a third (F3)
 CC zinc finger, ordered F1, F2, F3 from N-terminus to C-terminus, where the
 CC target site comprises, in 3'-5' direction, a first (S1), a second (S2),
 CC and a third (S3) target subsequence. Also described are: (i) a polypeptide
 CC (II) comprising (I); (2) a polynucleotide (III) encoding (I) or (II); and
 CC (3) designing (M) (I) involves selecting the F1 zinc finger such that
 CC it binds to the S1 target subsequence, selecting the F2 zinc finger such
 CC that it binds to the S2 target subsequence, and selecting the F3 zinc
 CC finger such that it binds to the S3 target subsequence, thus designing (I)
 CC that binds to a target site. (I) is useful for recognition of triplet
 CC target subsequences having the nucleotide G in the 5'-most position of the
 CC subsequence. (I) is useful in studying gene function, and for human
 CC therapeutics and plant engineering. (I), (II) or (III) is useful in
 CC therapeutic methods to modulate the expression of a target region within
 CC a subject, in diagnostic methods for sequence specific detection of
 CC target nucleic acid in a sample, and in assays to determine the
 CC phenotype and function of gene expression. (I) has improved affinity
 CC and specificity for their target sequences, as well as enhanced
 CC biological activity. ABQ71213 to ABQ72214 and ABP48191 to ABP51230

CC represent DNA target sequences and zinc finger peptides which are given
CC in the exemplification of the present invention.

XX Sequence 7 AA;

Query Match 100.0%; Score 36; DB 23; Length 7;
Best Local Similarity 100.0%; Pred. No. 9.3e+05;
Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 RSDHLR 7
1 RSDHLR 7

Db 1 RSDHLR 7

RESULT 63
ABP49104
ID ABP49104 standard; Peptide; 7 AA.

AC ABP49104;

DT 28-AUG-2002 (first entry)

DE Zinc finger protein related peptide motif SEQ ID NO:840.

XX Zinc finger protein; ZFP; DNA binding protein; zinc finger.

XX Homo sapiens.

OS Synthetic.

PN WO200242459-A2.

PD 30-MAY-2002.

PF 20-NOV-2001; 2001WO-US43438.

PR 20-NOV-2000; 2000US-0716637.

PA (SANG-) SANGAMO BIOSCIENCES INC.

PI Liu Q;

DR WPI; 2002-500284/53.

PT New zinc finger protein that binds to target site, useful in studying
PT gene function and for human therapeutics and plant engineering,
PT comprises first, second and third zinc fingers, ordered from N- to
PT C-terminus -

XX Example 1; Page 45; 81pp; English.

CC The present invention describes a zinc finger protein (I) that binds to
CC a target site, comprising a first (F1), a second (F2), and a third (F3)
CC zinc finger, ordered F1, F2, F3 from N-terminus to C-terminus, where the
CC target site comprises, in 3'-5' direction, a first (S1), a second (S2),
CC and a third (S3) target substrate. Also described are: (I) a polypeptide
CC (II) comprising (I); (2) a polynucleotide (III) encoding (I) or (II); and
CC (3) designing (M) (I) involves selecting the F1 zinc finger such that
CC it binds to the S1 target substrate, selecting the F2 zinc finger such
CC that it binds to the S2 target substrate, and selecting the F3 zinc
CC finger such that it binds to the S3 target substrate, thus designing (I)
CC that binds to a target site. (I) is useful for recognition of triplet
CC target substrates having the nucleotide G in the 5'-most position of the
CC substrate. (I) is useful in studying gene function, and for human
CC therapeutics and plant engineering. (I), (II) or (III) is useful in
CC therapeutic methods to modulate the expression of a target region within
CC a subject, in diagnostic methods for sequence specific detection of
CC target nucleic acid in a sample, and in assays to determined the
CC phenotype and function of gene expression. (I) has improved affinity
CC and specificity for their target sequences, as well as enhanced
CC biological activity. ABQ71213 to ABQ72214 and ABP48191 to ABP51230
CC represent DNA target sequences and zinc finger peptides which are given
CC in the exemplification of the present invention.

SQ Sequence 7 AA;

Query Match 100.0%; Score 36; DB 23; Length 7;
Best Local Similarity 100.0%; Pred. No. 9.3e+05;
Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 RSDHLR 7
1 RSDHLR 7

Db 1 RSDHLR 7

RESULT 64
ABP49136
ID ABP49136 standard; Peptide; 7 AA.

AC ABP49136;

DT 28-AUG-2002 (first entry)

DE Zinc finger protein related peptide motif SEQ ID NO:1260.

XX Zinc finger protein; ZFP; DNA binding protein; zinc finger.

XX Homo sapiens.

OS Synthetic.

PN WO200242459-A2.

PD 30-MAY-2002.

PF 20-NOV-2001; 2001WO-US43438.

PR 20-NOV-2000; 2000US-0716637.

PA (SANG-) SANGAMO BIOSCIENCES INC.

PI Liu Q;

DR WPI; 2002-500284/53.

PT New zinc finger protein that binds to target site, useful in studying
PT gene function and for human therapeutics and plant engineering,
PT comprises first, second and third zinc fingers, ordered from N- to
PT C-terminus -

XX Example 1; Page 46; 81pp; English.

CC The present invention describes a zinc finger protein (I) that binds to
CC a target site, comprising a first (F1), a second (F2), and a third (F3)
CC zinc finger, ordered F1, F2, F3 from N-terminus to C-terminus, where the
CC target site comprises, in 3'-5' direction, a first (S1), a second (S2),
CC and a third (S3) target substrate. Also described are: (I) a polypeptide
CC (II) comprising (I); (2) a polynucleotide (III) encoding (I) or (II); and
CC (3) designing (M) (I) involves selecting the F1 zinc finger such that
CC it binds to the S1 target substrate, selecting the F2 zinc finger such
CC that it binds to the S2 target substrate, and selecting the F3 zinc
CC finger such that it binds to the S3 target substrate, thus designing (I)
CC that binds to a target site. (I) is useful for recognition of triplet
CC target substrates having the nucleotide G in the 5'-most position of the
CC substrate. (I) is useful in studying gene function, and for human
CC therapeutics and plant engineering. (I), (II) or (III) is useful in
CC therapeutic methods to modulate the expression of a target region within
CC a subject, in diagnostic methods for sequence specific detection of
CC target nucleic acid in a sample, and in assays to determined the
CC phenotype and function of gene expression. (I) has improved affinity
CC and specificity for their target sequences, as well as enhanced
CC biological activity. ABQ71213 to ABQ72214 and ABP48191 to ABP51230
CC represent DNA target sequences and zinc finger peptides which are given
CC in the exemplification of the present invention.

Query Match 100.0%; Score 36; DB 23; Length 7;

Best Local Similarity 100.0%; Pred. NO. 9.3e+05;
Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 RSDHLSR 7
| | | | |
1 RSDHLSR 7

RESULT 65

ABP49169 standard; Peptide; 7 AA.

ABP49169;

28-AUG-2002 (first entry)

Zinc finger protein related peptide motif SEQ ID NO:1529.

Zinc finger protein; ZFP; DNA binding protein; zinc finger.

Homo sapiens.

Synthetic.

MO200242459-A2.

30-MAY-2002.

20-NOV-2001; 2001WO-US43438.

20-NOV-2000; 2000US-0716637.

(SANG-) SANGAMO BIOSCIENCES INC.

Liu Q;

WPI; 2002-500284/53.

New zinc finger protein that binds to target site, useful in studying gene function and for human therapeutics and plant engineering,

comprises first, second and third zinc fingers, ordered from N- to C-terminus -

Example 1; Page 47; 81pp; English.

The present invention describes a zinc finger protein (I) that binds to a target site, comprising a first (F1), a second (F2), and a third (F3) zinc finger, ordered F1, F2, F3 from N-terminus to C-terminus, where the target site comprises, in 3'-5' direction, a first (S1), a second (S2), and a third (S3) target sub-site. Also described are: (I) a polypeptide (II) comprising (I); (2) a polynucleotide (III) encoding (I) or (II); and (3) designing (M) (I) involves selecting the F1 zinc finger such that it binds to the S1 target sub-site, selecting the F2 zinc finger such that it binds to the S2 target sub-site, and selecting the F3 zinc finger such that it binds to the S3 target sub-site, thus designing (I) that binds to a target site. (I) is useful for recognition of triplet target sub-sites having the nucleotide G in the 5'-most position of the sub-site. (I) is useful in studying gene function, and for human therapeutics and plant engineering. (I), (II) or (III) is useful in therapeutic methods to modulate the expression of a target region within a subject, in diagnostic methods for sequence specific detection of target nucleic acid in a sample, and in assays to determine the phenotype and function of gene expression. (I) has improved affinity and specificity for their target sequences, as well as enhanced biological activity. ABQ71213 to ABQ72214 and ABP48191 to ABP51230 represent DNA target sequences and zinc finger peptides which are given in the exemplification of the present invention.

Sequence 7 AA;

Query Match 100.0%; Score 36; DB 23; Length 7;
Best Local Similarity 100.0%; Pred. No. 9.3e+05;
Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 RSDHLSR 7
| | | | |
1 RSDHLSR 7

RESULT 66

ABP49172 standard; Peptide; 7 AA.

ABP49172;

28-AUG-2002 (first entry)

Zinc finger protein related peptide motif SEQ ID NO:1530.

Zinc finger protein; ZFP; DNA binding protein; zinc finger.

Homo sapiens.

Synthetic.

MO200242459-A2.

30-MAY-2002.

20-NOV-2001; 2001WO-US43438.

20-NOV-2000; 2000US-0716637.

(SANG-) SANGAMO BIOSCIENCES INC.

Liu Q;

WPI; 2002-500284/53.

New zinc finger protein that binds to target site, useful in studying gene function and for human therapeutics and plant engineering,

comprises first, second and third zinc fingers, ordered from N- to C-terminus -

Example 1; Page 47; 81pp; English.

The present invention describes a zinc finger protein (I) that binds to a target site, comprising a first (F1), a second (F2), and a third (F3) zinc finger, ordered F1, F2, F3 from N-terminus to C-terminus, where the target site comprises, in 3'-5' direction, a first (S1), a second (S2), and a third (S3) target sub-site. Also described are: (I) a polypeptide (II) comprising (I); (2) a polynucleotide (III) encoding (I) or (II); and (3) designing (M) (I) involves selecting the F1 zinc finger such that it binds to the S1 target sub-site, selecting the F2 zinc finger such that it binds to the S2 target sub-site, and selecting the F3 zinc finger such that it binds to the S3 target sub-site, thus designing (I) that binds to a target site. (I) is useful for recognition of triplet target sub-sites having the nucleotide G in the 5'-most position of the sub-site. (I) is useful in studying gene function, and for human therapeutics and plant engineering. (I), (II) or (III) is useful in therapeutic methods to modulate the expression of a target region within a subject, in diagnostic methods for sequence specific detection of target nucleic acid in a sample, and in assays to determine the phenotype and function of gene expression. (I) has improved affinity and specificity for their target sequences, as well as enhanced biological activity. ABQ71213 to ABQ72214 and ABP48191 to ABP51230 represent DNA target sequences and zinc finger peptides which are given in the exemplification of the present invention.

Sequence 7 AA;

Query Match 100.0%; Score 36; DB 23; Length 7;
Best Local Similarity 100.0%; Pred. No. 9.3e+05;
Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 RSDHLSR 7
| | | | |
1 RSDHLSR 7

AC ABP49252;
 XX
 XX 28-AUG-2002 (first entry)
 XX
 XX Zinc finger protein related peptide motif SEQ ID NO:1471.
 DE
 XX Zinc finger protein; ZFP; DNA binding protein; zinc finger.
 XX
 XX Homo sapiens.
 OS Synthetic.
 XX
 XX WO200242459-A2.
 XX
 XX 30-MAY-2002.
 XX
 XX 20-NOV-2001; 2001WO-US43438.
 XX
 XX 20-NOV-2000; 2000US-0716637.
 XX
 XX (SANG-) SANGAMO BIOSCIENCES INC.
 XX
 XX Liu Q;
 PI
 DR WPI; 2002-500284/53.
 XX
 XX New zinc finger protein that binds to target site, useful in studying
 PT gene function and for human therapeutics and plant engineering,
 PT comprises first, second and third zinc fingers, ordered from N- to
 PT C-terminus -
 XX
 XX Claim 1; Page 48; 81pp; English.
 XX
 XX The present invention describes a zinc finger protein (I) that binds to
 CC a target site, comprising a first (F1), a second (F2), and a third (F3)
 CC zinc finger, ordered F1, F2, F3 from N-terminus to C-terminus, where the
 CC target site comprises, in 3', 5' direction, a first (S1), a second (S2),
 CC and a third (S3) target sub-site. Also described are: (I) a polypeptide
 CC (II) comprising (I); (2) a polynucleotide (III) encoding (I) or (II); and
 CC (3) designing (M) (I) involves selecting the F1 zinc finger such that
 CC it binds to the S1 target sub-site, selecting the F2 zinc finger such
 CC that it binds to the S2 target sub-site, and selecting the F3 zinc
 CC finger such that it binds to the S3 target sub-site, thus designing (I)
 CC that binds to a target site. (I) is useful for recognition of triplet
 CC target sub-sites having the nucleotide G in the 5'-most position of the
 CC sub-site. (I) is useful in studying gene function, and for human
 CC therapeutic methods to modulate the expression of a target region within
 CC a subject, in diagnostic methods for sequence specific detection of
 CC target nucleic acid in a sample, and in assays to determined the
 CC phenotype and function of gene expression. (I) has improved affinity
 CC and specificity for their target sequences, as well as enhanced
 CC biological activity. ABQ71213 to ABQ72214 and ABP48191 to ABP51230
 CC represent DNA target sequences and zinc finger peptides which are given
 CC in the exemplification of the present invention.
 CC
 XX
 XX Sequence 7 AA;
 SQ
 Query Match 100.0%; Score 36; DB 23; Length 7;
 Best Local Similarity 100.0%; Pred. No. 9.3e+05;
 Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 RSDHLR 7
 |||||
 Db 1 RSDHLR 7

RESULT 70
 ABP49277
 ID ABP49277 standard; Peptide; 7 AA.
 XX
 AC ABP49277;
 XX
 XX 28-AUG-2002 (first entry)
 DT

XX Zinc finger protein related peptide motif SEQ ID NO:1565.
 DE
 XX Zinc finger protein; ZFP; DNA binding protein; zinc finger.
 KM
 XX Homo sapiens.
 OS Synthetic.
 XX
 XX WO200242459-A2.
 XX
 XX 30-MAY-2002.
 XX
 XX 20-NOV-2001; 2001WO-US43438.
 XX
 XX 20-NOV-2000; 2000US-0716637.
 XX
 XX (SANG-) SANGAMO BIOSCIENCES INC.
 XX
 XX Liu Q;
 PI
 DR WPI; 2002-500284/53.
 XX
 XX New zinc finger protein that binds to target site, useful in studying
 PT gene function and for human therapeutics and plant engineering,
 PT comprises first, second and third zinc fingers, ordered from N- to
 PT C-terminus -
 XX
 XX Example 1; Page 48; 81pp; English.
 XX
 XX The present invention describes a zinc finger protein (I) that binds to
 CC a target site, comprising a first (F1), a second (F2), and a third (F3)
 CC zinc finger, ordered F1, F2, F3 from N-terminus to C-terminus, where the
 CC target site comprises, in 3', 5' direction, a first (S1), a second (S2),
 CC and a third (S3) target sub-site. Also described are: (I) a polypeptide
 CC (II) comprising (I); (2) a polynucleotide (III) encoding (I) or (II); and
 CC (3) designing (M) (I) involves selecting the F1 zinc finger such that
 CC it binds to the S1 target sub-site, selecting the F2 zinc finger such
 CC that it binds to the S2 target sub-site, and selecting the F3 zinc
 CC finger such that it binds to the S3 target sub-site, thus designing (I)
 CC that binds to a target site. (I) is useful for recognition of triplet
 CC target sub-sites having the nucleotide G in the 5'-most position of the
 CC sub-site. (I) is useful in studying gene function, and for human
 CC therapeutic methods to modulate the expression of a target region within
 CC a subject, in diagnostic methods for sequence specific detection of
 CC target nucleic acid in a sample, and in assays to determined the
 CC phenotype and function of gene expression. (I) has improved affinity
 CC and specificity for their target sequences, as well as enhanced
 CC biological activity. ABQ71213 to ABQ72214 and ABP48191 to ABP51230
 CC represent DNA target sequences and zinc finger peptides which are given
 CC in the exemplification of the present invention.
 CC
 XX
 XX Sequence 7 AA;
 SQ
 Query Match 100.0%; Score 36; DB 23; Length 7;
 Best Local Similarity 100.0%; Pred. No. 9.3e+05;
 Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 RSDHLR 7
 |||||
 Db 1 RSDHLR 7

RESULT 71
 ABP49307
 ID ABP49307 standard; Peptide; 7 AA.
 XX
 AC ABP49307;
 XX
 XX 28-AUG-2002 (first entry)
 XX
 XX Zinc finger protein related peptide motif SEQ ID NO:1575.
 DE

KM Zinc finger protein, ZFP; DNA binding protein, zinc finger.
 XX Homo sapiens.
 OS Synthetic.
 XX
 XX WO200242459-A2.
 XX
 XX 30-MAY-2002.
 XX
 XX 20-NOV-2001; 2001WO-US43438.
 XX
 XX 20-NOV-2000; 2000US-0716637.
 XX
 XX (SANG-) SANGAMO BIOSCIENCES INC.
 XX
 XX Liu Q;
 XX
 XX WPI; 2002-500284/53.
 XX
 XX
 XX New zinc finger protein that binds to target site, useful in studying
 PT gene function and for human therapeutics and plant engineering,
 PT comprises first, second and third zinc fingers, ordered from N- to
 PT C-terminus -
 PS
 PS Example 1; Page 48; 81pp; English.
 XX
 XX The present invention describes a zinc finger protein (I) that binds to
 CC a target site, comprising a first (F1), a second (F2), and a third (F3)
 CC zinc finger, ordered F1, F2, F3 from N-terminus to C-terminus, where the
 CC target site comprises, in 3'-5' direction, a first (S1), a second (S2),
 CC and a third (S3) target sub-site. Also described are: (1) a polypeptide
 CC (II) comprising (I); (2) a polynucleotide (III) encoding (I) or (II); and
 CC (3) designating (M) (I) involves selecting the F1 zinc finger such that
 CC it binds to the S1 target sub-site, selecting the F2 zinc finger such that
 CC that it binds to the S2 target sub-site, and selecting the F3 zinc
 CC finger such that it binds to the S3 target sub-site, thus designing (I)
 CC that binds to a target site. (I) is useful for recognition of triplet
 CC target sub-sites having the nucleotide G in the 5'-most position of the
 CC sub-site. (I) is useful in studying gene function, and for human
 CC therapeutics and plant engineering. (II) or (III) is useful in
 CC therapeutic methods to modulate the expression of a target region within
 CC a subject, in diagnostic methods for sequence specific detection of
 CC target nucleic acid in a sample, and in assays to determine the
 CC phenotype and function of gene expression. (I) has improved affinity
 CC and specificity for their target sequences, as well as enhanced
 CC biological activity. ABQ71213 to ABQ72214 and ABP48191 to ABP51230
 CC represent DNA target sequences and zinc finger peptides which are given
 CC in the exemplification of the present invention.
 CC
 XX
 XX Sequence 7 AA;
 SQ
 Query Match 100.0%; Score 36; DB 23; Length 7;
 Best Local Similarity 100.0%; Pred. No. 9.3e+05;
 Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
 QY 1 RSDHLR 7
 DB 1 RSDHLR 7
 RESULT 72
 ABP49391
 ID ABP49391 standard; Peptide; 7 AA.
 XX
 XX ABP49391;
 AC
 XX 28-AUG-2002 (first entry)
 DT
 XX
 XX Zinc finger protein related peptide motif SEQ ID NO:1603.
 DE
 XX Zinc finger protein, ZFP; DNA binding protein, zinc finger.
 KW
 XX Homo sapiens.
 OS

OS Synthetic.
 XX
 XX WO200242459-A2.
 XX
 XX 30-MAY-2002.
 XX
 XX 20-NOV-2001; 2001WO-US43438.
 XX
 XX 20-NOV-2000; 2000US-0716637.
 XX
 XX (SANG-) SANGAMO BIOSCIENCES INC.
 XX
 XX Liu Q;
 XX
 XX WPI; 2002-500284/53.
 XX
 XX
 XX New zinc finger protein that binds to target site, useful in studying
 PT gene function and for human therapeutics and plant engineering,
 PT comprises first, second and third zinc fingers, ordered from N- to
 PT C-terminus -
 PS
 PS Example 1; Page 49; 81pp; English.
 XX
 XX The present invention describes a zinc finger protein (I) that binds to
 CC a target site, comprising a first (F1), a second (F2), and a third (F3)
 CC zinc finger, ordered F1, F2, F3 from N-terminus to C-terminus, where the
 CC target site comprises, in 3'-5' direction, a first (S1), a second (S2),
 CC and a third (S3) target sub-site. Also described are: (1) a polypeptide
 CC (II) comprising (I); (2) a polynucleotide (III) encoding (I) or (II); and
 CC (3) designating (M) (I) involves selecting the F1 zinc finger such that
 CC it binds to the S1 target sub-site, selecting the F2 zinc finger such that
 CC that it binds to the S2 target sub-site, and selecting the F3 zinc
 CC finger such that it binds to the S3 target sub-site, thus designing (I)
 CC that binds to a target site. (I) is useful for recognition of triplet
 CC target sub-sites having the nucleotide G in the 5'-most position of the
 CC sub-site. (I) is useful in studying gene function, and for human
 CC therapeutics and plant engineering. (I), (II) or (III) is useful in
 CC therapeutic methods to modulate the expression of a target region within
 CC a subject, in diagnostic methods for sequence specific detection of
 CC target nucleic acid in a sample, and in assays to determine the
 CC phenotype and function of gene expression. (I) has improved affinity
 CC and specificity for their target sequences, as well as enhanced
 CC biological activity. ABQ71213 to ABQ72214 and ABP48191 to ABP51230
 CC represent DNA target sequences and zinc finger peptides which are given
 CC in the exemplification of the present invention.
 CC
 XX
 XX Sequence 7 AA;
 SQ
 Query Match 100.0%; Score 36; DB 23; Length 7;
 Best Local Similarity 100.0%; Pred. No. 9.3e+05;
 Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
 QY 1 RSDHLR 7
 DB 1 RSDHLR 7
 RESULT 73
 ABP49416
 ID ABP49416 standard; Peptide; 7 AA.
 XX
 XX ABP49416;
 AC
 XX 28-AUG-2002 (first entry)
 DT
 XX
 XX Zinc finger protein related peptide motif SEQ ID NO:1714.
 DE
 XX Zinc finger protein, ZFP; DNA binding protein, zinc finger.
 KW
 XX Homo sapiens.
 OS
 OS Synthetic.
 OS WO200242459-A2.

XX 30-MAY-2002.
PD 20-NOV-2001; 2001WO-US43438.
XX 20-NOV-2000; 2000US-0716637.
PF 20-NOV-2000; 2000US-0716637.
XX (SANG-) SANGAMO BIOSCIENCES INC.
PA
XX
XX Liu Q;
PI
PT WPI; 2002-500284/53.
XX
XX New zinc finger protein that binds to target site, useful in studying
PT gene function and for human therapeutics and plant engineering,
PT comprises first, second and third zinc fingers, ordered from N- to
PT C-terminus -
XX
XX Example 1; Page 50; 81pp; English.
XX
XX The present invention describes a zinc finger protein (I) that binds to
CC a target site, comprising a first (F1), a second (F2), and a third (F3)
CC zinc finger, ordered F1, F2, F3 from N-terminus to C-terminus, where the
CC target site comprises, in 3'-5' direction, a first (S1), a second (S2),
CC and a third (S3) target sub-site. Also described are: (1) a polypeptide
CC (II) comprising (I); (2) a polynucleotide (III) encoding (I) or (II); and
CC (3) designing (M) (I) involves selecting the F1 zinc finger such that
CC it binds to the S1 target sub-site, selecting the F2 zinc finger such
CC that it binds to the S2 target sub-site, and selecting the F3 zinc
CC finger such that it binds to the S3 target sub-site, thus designing (I)
CC that binds to a target site. (I) is useful for recognition of triplet
CC target sub-sites having the nucleotide G in the 5'-most position of the
CC sub-site. (I) is useful in studying gene function, and for human
CC therapeutics and plant engineering. (I), (II) or (III) is useful in
CC therapeutic methods to modulate the expression of a target region within
CC a subject, in diagnostic methods for sequence specific detection of
CC target nucleic acid in a sample, and in assays to determine the
CC phenotype and function of gene expression. (I) has improved affinity
CC and specificity for their target sequences, as well as enhanced
CC biological activity. ABQ71213 to ABQ72214 and ABP48191 to ABP51230
CC represent DNA target sequences and zinc finger peptides which are given
CC in the exemplification of the present invention.
XX
XX Sequence 7 AA;
SQ
Query Match 100.0%; Score 36; DB 23; Length 7;
Best Local Similarity 100.0%; Pred. No. 9.3e+05;
Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
QY 1 RSDHLSR 7
DB 1 RSDHLSR 7
RESULT 74
ABP49419
ID ABP49419 standard; Peptide; 7 AA.
XX
XX ABP49419;
AC
XX 28-AUG-2002 (first entry)
XX
XX Zinc finger protein related peptide motif SEQ ID NO:1715.
DE
XX Zinc finger protein; ZFP; DNA binding protein; zinc finger.
XX
XX Homo sapiens.
OS
XX Synthetic.
XX WO200242459-A2.
XX
XX 30-MAY-2002.
XX

PF 20-NOV-2001; 2001WO-US43438.
XX
XX 20-NOV-2000; 2000US-0716637.
XX
XX (SANG-) SANGAMO BIOSCIENCES INC.
PA
XX
XX Liu Q;
PI
PT WPI; 2002-500284/53.
XX
XX New zinc finger protein that binds to target site, useful in studying
PT gene function and for human therapeutics and plant engineering,
PT comprises first, second and third zinc fingers, ordered from N- to
PT C-terminus -
XX
XX Example 1; Page 50; 81pp; English.
XX
XX The present invention describes a zinc finger protein (I) that binds to
CC a target site, comprising a first (F1), a second (F2), and a third (F3)
CC zinc finger, ordered F1, F2, F3 from N-terminus to C-terminus, where the
CC target site comprises, in 3'-5' direction, a first (S1), a second (S2),
CC and a third (S3) target sub-site. Also described are: (1) a polypeptide
CC (II) comprising (I); (2) a polynucleotide (III) encoding (I) or (II); and
CC (3) designing (M) (I) involves selecting the F1 zinc finger such that
CC it binds to the S1 target sub-site, selecting the F2 zinc finger such
CC that it binds to the S2 target sub-site, and selecting the F3 zinc
CC finger such that it binds to the S3 target sub-site, thus designing (I)
CC that binds to a target site. (I) is useful for recognition of triplet
CC target sub-sites having the nucleotide G in the 5'-most position of the
CC sub-site. (I) is useful in studying gene function, and for human
CC therapeutics and plant engineering. (I), (II) or (III) is useful in
CC therapeutic methods to modulate the expression of a target region within
CC a subject, in diagnostic methods for sequence specific detection of
CC target nucleic acid in a sample, and in assays to determine the
CC phenotype and function of gene expression. (I) has improved affinity
CC and specificity for their target sequences, as well as enhanced
CC biological activity. ABQ71213 to ABQ72214 and ABP48191 to ABP51230
CC represent DNA target sequences and zinc finger peptides which are given
CC in the exemplification of the present invention.
XX
XX Sequence 7 AA;
SQ
Query Match 100.0%; Score 36; DB 23; Length 7;
Best Local Similarity 100.0%; Pred. No. 9.3e+05;
Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
QY 1 RSDHLSR 7
DB 1 RSDHLSR 7
RESULT 75
ABP49422
ID ABP49422 standard; Peptide; 7 AA.
XX
XX ABP49422;
AC
XX 28-AUG-2002 (first entry)
XX
XX Zinc finger protein related peptide motif SEQ ID NO:1716.
DE
XX Zinc finger protein; ZFP; DNA binding protein; zinc finger.
XX
XX Homo sapiens.
OS
XX Synthetic.
XX WO200242459-A2.
XX
XX 30-MAY-2002.
XX
XX 20-NOV-2001; 2001WO-US43438.
XX
XX 20-NOV-2000; 2000US-0716637.
XX

XX (SANG-) SANGAMO BIOSCIENCES INC.
 PA Liu Q;
 XX WPI; 2002-500284/53.
 XX
 DR New zinc finger protein that binds to target site, useful in studying
 XX gene function and for human therapeutics and plant engineering.
 PT comprises first, second and third zinc fingers, ordered from N- to
 PT C-terminus -
 PS Example 1; Page 50; 81pp; English.
 XX
 CC The present invention describes a zinc finger protein (I) that binds to
 CC a target site, comprising a first (F1), a second (F2), and a third (F3)
 CC zinc finger, ordered F1, F2, F3 from N-terminus to C-terminus, where the
 CC target site comprises, in 3'-5' direction, a first (S1), a second (S2),
 CC and a third (S3) target sub-site. Also described are: (1) a polypeptide
 CC (II) comprising (I); (2) a polynucleotide (III) encoding (I) or (II); and
 CC (3) designing (M) (I) involves selecting the F1 zinc finger such that
 CC it binds to the S1 target sub-site, selecting the F2 zinc finger such
 CC that it binds to the S2 target sub-site, and selecting the F3 zinc
 CC finger such that it binds to the S3 target sub-site, thus designing (I)
 CC that binds to a target site. (I) is useful for recognition of triplet
 CC target sub-sites having the nucleotide G in the 5'-most position of the
 CC sub-site. (I) is useful in studying gene function, and for human
 CC therapeutic methods and plant engineering. (I), (II) or (III) is useful in
 CC therapeutic methods to modulate the expression of a target region within
 CC a subject, in diagnostic methods for sequence specific detection of
 CC target nucleic acid in a sample, and in assays to determine the
 CC phenotype and function of gene expression. (I) has improved affinity
 CC and specificity for their target sequences, as well as enhanced
 CC biological activity. ABQ71213 to ABQ72214 and ABP48191 to ABP51230
 CC represent DNA target sequences and zinc finger peptides which are given
 CC in the exemplification of the present invention.
 CC
 CC Sequence 7 AA;
 SQ
 Query Match 100.0%; Score 36; DB 23; Length 7;
 Best Local Similarity 100.0%; Pred. No. 9.3e+05;
 Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
 QY 1 RSDHLSR 7
 Db 1 RSDHLSR 7
 RESULT 76
 ABP49425
 ID ABP49425 standard; Peptide; 7 AA.
 XX
 AC ABP49425;
 DT 28-AUG-2002 (first entry)
 XX
 DE Zinc finger protein related peptide motif SEQ ID NO:1717.
 XX
 KM Zinc finger protein; ZFP; DNA binding protein; zinc finger.
 XX
 OS Homo sapiens.
 OS Synthetic.
 XX
 PN WO200242459-A2.
 PD 30-MAY-2002.
 XX
 PF 20-NOV-2001; 2001WO-US43438.
 XX
 PR 20-NOV-2000; 2000US-0716637.
 XX
 PA (SANG-) SANGAMO BIOSCIENCES INC.
 XX

PI Liu Q;
 XX WPI; 2002-500284/53.
 XX
 DR New zinc finger protein that binds to target site, useful in studying
 XX gene function and for human therapeutics and plant engineering.
 PT comprises first, second and third zinc fingers, ordered from N- to
 PT C-terminus -
 PS Example 1; Page 50; 81pp; English.
 XX
 CC The present invention describes a zinc finger protein (I) that binds to
 CC a target site, comprising a first (F1), a second (F2), and a third (F3)
 CC zinc finger, ordered F1, F2, F3 from N-terminus to C-terminus, where the
 CC target site comprises, in 3'-5' direction, a first (S1), a second (S2),
 CC and a third (S3) target sub-site. Also described are: (1) a polypeptide
 CC (II) comprising (I); (2) a polynucleotide (III) encoding (I) or (II); and
 CC (3) designing (M) (I) involves selecting the F1 zinc finger such that
 CC it binds to the S1 target sub-site, selecting the F2 zinc finger such
 CC that it binds to the S2 target sub-site, and selecting the F3 zinc
 CC finger such that it binds to the S3 target sub-site, thus designing (I)
 CC that binds to a target site. (I) is useful for recognition of triplet
 CC target sub-sites having the nucleotide G in the 5'-most position of the
 CC sub-site. (I) is useful in studying gene function, and for human
 CC therapeutic methods and plant engineering. (I), (II) or (III) is useful in
 CC therapeutic methods to modulate the expression of a target region within
 CC a subject, in diagnostic methods for sequence specific detection of
 CC target nucleic acid in a sample, and in assays to determine the
 CC phenotype and function of gene expression. (I) has improved affinity
 CC and specificity for their target sequences, as well as enhanced
 CC biological activity. ABQ71213 to ABQ72214 and ABP48191 to ABP51230
 CC represent DNA target sequences and zinc finger peptides which are given
 CC in the exemplification of the present invention.
 CC
 CC Sequence 7 AA;
 SQ
 Query Match 100.0%; Score 36; DB 23; Length 7;
 Best Local Similarity 100.0%; Pred. No. 9.3e+05;
 Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
 QY 1 RSDHLSR 7
 Db 1 RSDHLSR 7
 RESULT 77
 ABP49428
 ID ABP49428 standard; Peptide; 7 AA.
 XX
 AC ABP49428;
 DT 28-AUG-2002 (first entry)
 XX
 DE Zinc finger protein related peptide motif SEQ ID NO:1718.
 XX
 KM Zinc finger protein; ZFP; DNA binding protein; zinc finger.
 XX
 OS Homo sapiens.
 OS Synthetic.
 XX
 PN WO200242459-A2.
 PD 30-MAY-2002.
 XX
 PF 20-NOV-2001; 2001WO-US43438.
 XX
 PR 20-NOV-2000; 2000US-0716637.
 XX
 PA (SANG-) SANGAMO BIOSCIENCES INC.
 XX
 PI Liu Q;
 XX WPI; 2002-500284/53.
 XX

XX New zinc finger protein that binds to target site, useful in studying
PT gene function and for human therapeutics and plant engineering,
PT comprises first, second and third zinc fingers, ordered from N- to
PT C-terminus -
XX
XX Example 1; Page 50; 81pp; English.
XX
XX The present invention describes a zinc finger protein (I) that binds to
CC a target site, comprising a first (F1), a second (F2), and a third (F3)
CC zinc finger, ordered F1, F2, F3 from N-terminus to C-terminus, where the
CC target site comprises, in 3'-5' direction, a first (S1), a second (S2),
CC and a third (S3) target sub-site. Also described are: (I) a polypeptide
CC (II) comprising (I); (2) a polynucleotide (III) encoding (I) or (II); and
CC (3) designing (M) (I) involves selecting the F1 zinc finger such that
CC it binds to the S1 target sub-site, selecting the F2 zinc finger such
CC that it binds to the S2 target sub-site, and selecting the F3 zinc
CC finger such that it binds to the S3 target sub-site, thus designing (I)
CC that binds to a target site. (I) is useful for recognition of triplet
CC target sub-sites having the nucleotide G in the 5'-most position of the
CC sub-site. (I) is useful in studying gene function, and for human
CC therapeutics and plant engineering. (I), (II) or (III) is useful in
CC therapeutic methods to modulate the expression of a target region within
CC a subject, in diagnostic methods for sequence specific detection of
CC target nucleic acid in a sample, and in assays to determine the
CC phenotype and function of gene expression. (I) has improved affinity
CC and specificity for their target sequences, as well as enhanced
CC biological activity. ABQ71213 to ABQ72214 and ABP48191 to ABP51230
CC represent DNA target sequences and zinc finger peptides which are given
CC in the exemplification of the present invention.
XX
SQ Sequence 7 AA;
Query Match 100.0%; Score 36; DB 23; Length 7;
Best Local Similarity 100.0%; Pred. No. 9.3e+05;
Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
OY 1 RSDHLSR 7
Db 1 RSDHLSR 7
RESULT 78
ABP49517 standard; Peptide; 7 AA.
AC ABP49517;
XX
DT 28-AUG-2002 (first entry)
XX
XX Zinc finger protein related peptide motif SEQ ID NO:1951.
DE Zinc finger protein; ZFP; DNA binding protein; zinc finger.
XX
XX Zinc finger protein; ZFP; DNA binding protein; zinc finger.
KM
XX Homo sapiens.
OS Synthetic.
XX
XX WO200242459-A2.
PN
XX
XX 30-MAY-2002.
PD
XX
XX 20-NOV-2001; 2001WO-US43438.
PF
XX
XX 20-NOV-2000; 2000US-0716637.
PR
XX
XX (SANG-) SANGAMO BIOSCIENCES INC.
PA
XX
XX Liu Q;
PI
XX
XX WPI; 2002-500284/53.
DR
XX
XX New zinc finger protein that binds to target site, useful in studying
PT gene function and for human therapeutics and plant engineering,
PT

PT comprises first, second and third zinc fingers, ordered from N- to
PT C-terminus -
XX
XX Example 1; Page 51; 81pp; English.
XX
XX The present invention describes a zinc finger protein (I) that binds to
CC a target site, comprising a first (F1), a second (F2), and a third (F3)
CC zinc finger, ordered F1, F2, F3 from N-terminus to C-terminus, where the
CC target site comprises, in 3'-5' direction, a first (S1), a second (S2),
CC and a third (S3) target sub-site. Also described are: (I) a polypeptide
CC (II) comprising (I); (2) a polynucleotide (III) encoding (I) or (II); and
CC (3) designing (M) (I) involves selecting the F1 zinc finger such that
CC it binds to the S1 target sub-site, selecting the F2 zinc finger such
CC that it binds to the S2 target sub-site, and selecting the F3 zinc
CC finger such that it binds to the S3 target sub-site, thus designing (I)
CC that binds to a target site. (I) is useful for recognition of triplet
CC target sub-sites having the nucleotide G in the 5'-most position of the
CC sub-site. (I) is useful in studying gene function, and for human
CC therapeutics and plant engineering. (I), (II) or (III) is useful in
CC therapeutic methods to modulate the expression of a target region within
CC a subject, in diagnostic methods for sequence specific detection of
CC target nucleic acid in a sample, and in assays to determine the
CC phenotype and function of gene expression. (I) has improved affinity
CC and specificity for their target sequences, as well as enhanced
CC biological activity. ABQ71213 to ABQ72214 and ABP48191 to ABP51230
CC represent DNA target sequences and zinc finger peptides which are given
CC in the exemplification of the present invention.
XX
SQ Sequence 7 AA;
Query Match 100.0%; Score 36; DB 23; Length 7;
Best Local Similarity 100.0%; Pred. No. 9.3e+05;
Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
OY 1 RSDHLSR 7
Db 1 RSDHLSR 7
RESULT 79
ABP49520 standard; Peptide; 7 AA.
AC ABP49520;
XX
DT 28-AUG-2002 (first entry)
XX
XX Zinc finger protein related peptide motif SEQ ID NO:1952.
DE Zinc finger protein; ZFP; DNA binding protein; zinc finger.
XX
XX Zinc finger protein; ZFP; DNA binding protein; zinc finger.
KM
XX Homo sapiens.
OS Synthetic.
XX
XX WO200242459-A2.
PN
XX
XX 30-MAY-2002.
PD
XX
XX 20-NOV-2001; 2001WO-US43438.
PF
XX
XX 20-NOV-2000; 2000US-0716637.
PR
XX
XX (SANG-) SANGAMO BIOSCIENCES INC.
PA
XX
XX Liu Q;
PI
XX
XX WPI; 2002-500284/53.
DR
XX
XX New zinc finger protein that binds to target site, useful in studying
PT gene function and for human therapeutics and plant engineering,
PT comprises first, second and third zinc fingers, ordered from N- to
PT C-terminus -
XX

PS Example 1; Page 51; 81pp; English.
XX The present invention describes a zinc finger protein (1) that binds to
CC a target site, comprising a first (F1), a second (F2), and a third (F3)
CC zinc finger, ordered F1, F2, F3 from N-terminus to C-terminus, where the
CC target site comprises, in 3'-5' direction, a first (S1), a second (S2),
CC and a third (S3) target subsequence. Also described are: (1) a polypeptide
CC (II) comprising (1); (2) a polynucleotide (III) encoding (1) or (II); and
CC (3) designing (M) (1) involves selecting the F1 zinc finger such that
CC it binds to the S1 target subsequence, selecting the F2 zinc finger such
CC that it binds to the S2 target subsequence, and selecting the F3 zinc
CC finger such that it binds to the S3 target subsequence, thus designing (1)
CC that binds to a target site. (1) is useful for recognition of triplet
CC target subsequences having the nucleotide G in the 5'-most position of the
CC subsequence. (1) is useful in studying gene function, and for human
CC therapeutic methods to modulate the expression of a target region within
CC a subject, in diagnostic methods for sequence specific detection of
CC target nucleic acid in a sample, and in assays to determine the
CC phenotype and function of gene expression. (1) has improved affinity
CC and specificity for their target sequences, as well as enhanced
CC biological activity. ABQ71213 to ABQ72214 and ABP48191 to ABP51230
CC represent DNA target sequences and zinc finger peptides which are given
CC in the exemplification of the present invention.
XX

Sequence 7 AA;

Query Match 100.0%; Score 36; DB 23; Length 7;
Best Local Similarity 100.0%; Pred. No. 9.3e+05;
Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 RSDHLSR 7
Db 1 RSDHLSR 7

RESULT 80
ABP49579
ID ABP49579 standard; Peptide; 7 AA.
XX
AC ABP49579;
XX
DT 28-AUG-2002 (first entry)
XX
DE Zinc finger protein related peptide motif SEQ ID NO:1870.
XX
KM Zinc finger protein; ZFP; DNA binding protein; zinc finger.
XX
OS Homo sapiens.
XX
OS Synthetic.
XX
PN WO200242459-A2.
XX
PD 30-MAY-2002.
XX
PF 20-NOV-2001; 2001WO-US43438.
XX
PR 20-NOV-2000; 2000US-0716637.
XX
PA (SANG-) SANGAMO BIOSCIENCES INC.
XX
PI Liu Q;
XX
DR WPI; 2002-500284/53.
XX
PT New zinc finger protein that binds to target site, useful in studying
PT gene function and for human therapeutics and plant engineering,
PT comprises first, second and third zinc fingers, ordered from N- to
PT C-terminus -
XX
PS Example 1; Page 51; 81pp; English.
XX
CC The present invention describes a zinc finger protein (1) that binds to

CC a target site, comprising a first (F1), a second (F2), and a third (F3)
CC zinc finger, ordered F1, F2, F3 from N-terminus to C-terminus, where the
CC target site comprises, in 3'-5' direction, a first (S1), a second (S2),
CC and a third (S3) target subsequence. Also described are: (1) a polypeptide
CC (II) comprising (1); (2) a polynucleotide (III) encoding (1) or (II); and
CC (3) designing (M) (1) involves selecting the F1 zinc finger such that
CC it binds to the S1 target subsequence, selecting the F2 zinc finger such
CC that it binds to the S2 target subsequence, and selecting the F3 zinc
CC finger such that it binds to the S3 target subsequence, thus designing (1)
CC that binds to a target site. (1) is useful for recognition of triplet
CC target subsequences having the nucleotide G in the 5'-most position of the
CC subsequence. (1) is useful in studying gene function, and for human
CC therapeutic methods to modulate the expression of a target region within
CC a subject, in diagnostic methods for sequence specific detection of
CC target nucleic acid in a sample, and in assays to determine the
CC phenotype and function of gene expression. (1) has improved affinity
CC and specificity for their target sequences, as well as enhanced
CC biological activity. ABQ71213 to ABQ72214 and ABP48191 to ABP51230
CC represent DNA target sequences and zinc finger peptides which are given
CC in the exemplification of the present invention.
XX

Sequence 7 AA;

Query Match 100.0%; Score 36; DB 23; Length 7;
Best Local Similarity 100.0%; Pred. No. 9.3e+05;
Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 RSDHLSR 7
Db 1 RSDHLSR 7

RESULT 81
ABP49585
ID ABP49585 standard; Peptide; 7 AA.
XX
AC ABP49585;
XX
DT 28-AUG-2002 (first entry)
XX
DE Zinc finger protein related peptide motif SEQ ID NO:1872.
XX
KM Zinc finger protein; ZFP; DNA binding protein; zinc finger.
XX
OS Homo sapiens.
XX
OS Synthetic.
XX
PN WO200242459-A2.
XX
PD 30-MAY-2002.
XX
PF 20-NOV-2001; 2001WO-US43438.
XX
PR 20-NOV-2000; 2000US-0716637.
XX
PA (SANG-) SANGAMO BIOSCIENCES INC.
XX
PI Liu Q;
XX
DR WPI; 2002-500284/53.
XX
PT New zinc finger protein that binds to target site, useful in studying
PT gene function and for human therapeutics and plant engineering,
PT comprises first, second and third zinc fingers, ordered from N- to
PT C-terminus -
XX
PS Example 1; Page 52; 81pp; English.
XX
CC The present invention describes a zinc finger protein (1) that binds to
CC a target site, comprising a first (F1), a second (F2), and a third (F3)
CC zinc finger, ordered F1, F2, F3 from N-terminus to C-terminus, where the
CC target site comprises, in 3'-5' direction, a first (S1), a second (S2),

CC and a third (S3) target subsite. Also described are: (1) a polypeptide
 CC (II) comprising (I); (2) a polynucleotide (III) encoding (I) or (II); and
 CC (3) designing (M) (I) involves selecting the F1 zinc finger such that
 CC it binds to the S1 target subsite, selecting the F2 zinc finger such
 CC that it binds to the S2 target subsite, and selecting the F3 zinc
 CC finger such that it binds to the S3 target subsite, thus designing (I)
 CC that binds to a target site. (I) is useful for recognition of triplet
 CC target subsites having the nucleotide G in the 5'-most position of the
 CC subsite. (I) is useful in studying gene function, and for human
 CC therapeutics and plant engineering. (I), (II) or (III) is useful in
 CC therapeutic methods to modulate the expression of a target region within
 CC a subject, in diagnostic methods for sequence specific detection of
 CC target nucleic acid in a sample, and in assays to determine the
 CC phenotype and function of gene expression. (I) has improved affinity
 CC and specificity for their target sequences, as well as enhanced
 CC biological activity. ABQ71213 to ABQ72214 and ABP48191 to ABP51230
 CC represent DNA target sequences and zinc finger peptides which are given
 CC in the exemplification of the present invention.

CC Sequence 7 AA;

Query Match 100.0%; Score 36; DB 23; Length 7;

Best Local Similarity 100.0%; Pred. No. 9.3e+05; Mismatches 0; Indels 0; Gaps 0;

Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 RSDHLSR 7
 |||||
 Db 1 RSDHLSR 7

RESULT 82
 ABP49595
 ID ABP49595 standard; Peptide; 7 AA.

AC ABP49595;

DT 28-AUG-2002 (first entry)

DE Zinc finger protein related peptide motif SEQ ID NO:1977.

KW Zinc finger protein; ZFP; DNA binding protein; zinc finger.

OS Homo sapiens.

OS Synthetic.

PN WO200242459-A2.

PD 30-MAY-2002.

PF 20-NOV-2001; 2001WO-US43438.

PR 20-NOV-2000; 2000US-0716637.

PA (SANG-) SANGAMO BIOSCIENCES INC.

PI Liu Q;

DR WPI; 2002-500284/53.

PT New zinc finger protein that binds to target site, useful in studying
 PT gene function and for human therapeutics and plant engineering,
 PT comprises first, second and third zinc fingers, ordered from N- to
 PT C-terminus -
 PS Example 1; Page 52; 81pp; English.

XX The present invention describes a zinc finger protein (I) that binds to
 CC a target site, comprising a first (F1), a second (F2), and a third (F3)
 CC zinc finger, ordered F1, F2, F3 from N-terminus to C-terminus, where the
 CC target site comprises, in 3'-5' direction, a first (S1), a second (S2),
 CC and a third (S3) target subsite. Also described are: (1) a polypeptide
 CC (II) comprising (I); (2) a polynucleotide (III) encoding (I) or (II); and
 CC (3) designing (M) (I) involves selecting the F1 zinc finger such that
 CC it binds to the S1 target subsite, selecting the F2 zinc finger such that
 CC it binds to the S2 target subsite, and selecting the F3 zinc
 CC finger such that it binds to the S3 target subsite, thus designing (I)

CC it binds to the S1 target subsite, selecting the F2 zinc finger such
 CC that it binds to the S2 target subsite, and selecting the F3 zinc
 CC finger such that it binds to the S3 target subsite, thus designing (I)
 CC that binds to a target site. (I) is useful for recognition of triplet
 CC target subsites having the nucleotide G in the 5'-most position of the
 CC subsite. (I) is useful in studying gene function, and for human
 CC therapeutics and plant engineering. (I), (II) or (III) is useful in
 CC therapeutic methods to modulate the expression of a target region within
 CC a subject, in diagnostic methods for sequence specific detection of
 CC target nucleic acid in a sample, and in assays to determine the
 CC phenotype and function of gene expression. (I) has improved affinity
 CC and specificity for their target sequences, as well as enhanced
 CC biological activity. ABQ71213 to ABQ72214 and ABP48191 to ABP51230
 CC represent DNA target sequences and zinc finger peptides which are given
 CC in the exemplification of the present invention.

CC Sequence 7 AA;

Query Match 100.0%; Score 36; DB 23; Length 7;

Best Local Similarity 100.0%; Pred. No. 9.3e+05; Mismatches 0; Indels 0; Gaps 0;

Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 RSDHLSR 7
 |||||
 Db 1 RSDHLSR 7

RESULT 83

ABP49603
 ID ABP49603 standard; Peptide; 7 AA.

AC ABP49603;

DT 28-AUG-2002 (first entry)

DE Zinc finger protein related peptide motif SEQ ID NO:1878.

KW Zinc finger protein; ZFP; DNA binding protein; zinc finger.

OS Homo sapiens.

OS Synthetic.

PN WO200242459-A2.

PD 30-MAY-2002.

PF 20-NOV-2001; 2001WO-US43438.

PR 20-NOV-2000; 2000US-0716637.

PA (SANG-) SANGAMO BIOSCIENCES INC.

PI Liu Q;

DR WPI; 2002-500284/53.

PT New zinc finger protein that binds to target site, useful in studying
 PT gene function and for human therapeutics and plant engineering,
 PT comprises first, second and third zinc fingers, ordered from N- to
 PT C-terminus -
 PS Example 1; Page 52; 81pp; English.

XX The present invention describes a zinc finger protein (I) that binds to
 CC a target site, comprising a first (F1), a second (F2), and a third (F3)
 CC zinc finger, ordered F1, F2, F3 from N-terminus to C-terminus, where the
 CC target site comprises, in 3'-5' direction, a first (S1), a second (S2),
 CC and a third (S3) target subsite. Also described are: (1) a polypeptide
 CC (II) comprising (I); (2) a polynucleotide (III) encoding (I) or (II); and
 CC (3) designing (M) (I) involves selecting the F1 zinc finger such that
 CC it binds to the S1 target subsite, selecting the F2 zinc finger such
 CC that it binds to the S2 target subsite, and selecting the F3 zinc
 CC finger such that it binds to the S3 target subsite, thus designing (I)

CC target nucleic acid in a sample, and in assays to determine the
 CC phenotype and function of gene expression. (I) has improved affinity
 CC and specificity for their target sequences, as well as enhanced
 CC biological activity. ABQ71213 to ABQ72214 and ABP48191 to ABP51230
 CC represent DNA target sequences and zinc finger peptides which are given
 CC in the exemplification of the present invention.

XX Sequence 7 AA;

XX Query Match

Best Local Similarity 100.0%; Score 36; DB 23; Length 7;

Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 RSDHLR 7
 1 RSDHLR 7

Db 1 RSDHLR 7

RESULT 86

ID ABP49618 standard; Peptide; 7 AA.

AC ABP49618;

DT 28-AUG-2002 (first entry)

DE Zinc finger protein related peptide motif SEQ ID NO:1883.

XX Zinc finger protein; ZFP; DNA binding protein; zinc finger.

OS Homo sapiens.

OS Synthetic.

PN WO200242459-A2.

PD 30-MAY-2002.

PF 20-NOV-2001; 2001WO-US43438.

XX 20-NOV-2000; 2000US-0716637.

PA (SANG-) SANGAMO BIOSCIENCES INC.

PI Liu Q;

DR WPI; 2002-500284/53.

PT New zinc finger protein that binds to target site, useful in studying

PT gene function and for human therapeutics and plant engineering,

PT comprises first, second and third zinc fingers, ordered from N- to

XX C-terminus -

XX Example 1; Page 52; 81pp; English.

XX The present invention describes a zinc finger protein (I) that binds to
 CC a target site, comprising a first (F1), a second (F2), and a third (F3)
 CC zinc finger, ordered F1, F2, F3 from N-terminus to C-terminus, where the
 CC target site comprises, in 3'-5' direction, a first (S1), a second (S2),
 CC and a third (S3) target sub-site. Also described are: (I) a polypeptide
 CC (II) comprising (I); (2) a polynucleotide (III) encoding (I) or (II); and
 CC (3) designing (M) (I) involves selecting the F1 zinc finger such that
 CC it binds to the S1 target sub-site, selecting the F2 zinc finger such
 CC that it binds to the S2 target sub-site, and selecting the F3 zinc
 CC finger such that it binds to the S3 target sub-site, thus designing (I)
 CC that binds to a target site. (I) is useful for recognition of triplet
 CC target sub-sites having the nucleotide G in the 5'-most position of the
 CC sub-site. (I) is useful in studying gene function, and for human
 CC therapeutics and plant engineering. (I), (II) or (III) is useful in
 CC therapeutic methods to modulate the expression of a target region within
 CC a subject, in diagnostic methods for sequence specific detection of
 CC target nucleic acid in a sample, and in assays to determine the
 CC phenotype and function of gene expression. (I) has improved affinity
 CC and specificity for their target sequences, as well as enhanced

CC biological activity. ABQ71213 to ABQ72214 and ABP48191 to ABP51230
 CC represent DNA target sequences and zinc finger peptides which are given
 CC in the exemplification of the present invention.

XX Sequence 7 AA;

XX Query Match

Best Local Similarity 100.0%; Score 36; DB 23; Length 7;

Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 RSDHLR 7
 1 RSDHLR 7

Db 1 RSDHLR 7

RESULT 87

ID ABP49621 standard; Peptide; 7 AA.

AC ABP49621;

DT 28-AUG-2002 (first entry)

DE Zinc finger protein related peptide motif SEQ ID NO:1884.

XX Zinc finger protein; ZFP; DNA binding protein; zinc finger.

OS Homo sapiens.

OS Synthetic.

PN WO200242459-A2.

PD 30-MAY-2002.

PF 20-NOV-2001; 2001WO-US43438.

XX 20-NOV-2000; 2000US-0716637.

PA (SANG-) SANGAMO BIOSCIENCES INC.

PI Liu Q;

DR WPI; 2002-500284/53.

PT New zinc finger protein that binds to target site, useful in studying

PT gene function and for human therapeutics and plant engineering,

PT comprises first, second and third zinc fingers, ordered from N- to

XX C-terminus -

XX Example 1; Page 52; 81pp; English.

XX The present invention describes a zinc finger protein (I) that binds to
 CC a target site, comprising a first (F1), a second (F2), and a third (F3)
 CC zinc finger, ordered F1, F2, F3 from N-terminus to C-terminus, where the
 CC target site comprises, in 3'-5' direction, a first (S1), a second (S2),
 CC and a third (S3) target sub-site. Also described are: (I) a polypeptide
 CC (II) comprising (I); (2) a polynucleotide (III) encoding (I) or (II); and
 CC (3) designing (M) (I) involves selecting the F1 zinc finger such that
 CC it binds to the S1 target sub-site, selecting the F2 zinc finger such
 CC that it binds to the S2 target sub-site, and selecting the F3 zinc
 CC finger such that it binds to the S3 target sub-site, thus designing (I)
 CC that binds to a target site. (I) is useful for recognition of triplet
 CC target sub-sites having the nucleotide G in the 5'-most position of the
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 CC therapeutics and plant engineering. (I), (II) or (III) is useful in
 CC therapeutic methods to modulate the expression of a target region within
 CC a subject, in diagnostic methods for sequence specific detection of
 CC target nucleic acid in a sample, and in assays to determine the
 CC phenotype and function of gene expression. (I) has improved affinity
 CC and specificity for their target sequences, as well as enhanced
 CC biological activity. ABQ71213 to ABQ72214 and ABP48191 to ABP51230
 CC represent DNA target sequences and zinc finger peptides which are given
 CC in the exemplification of the present invention.

XX Sequence 7 AA; 100.0%; Score 36; DB 23; Length 7;
Query Match Best Local Similarity 100.0%; Pred. No. 9.3e+05;
Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 RSDHLSR 7
DB 1 RSDHLSR 7

RESULT 88
ABP49904
ID ABP49904 standard; Peptide: 7 AA.
AC ABP49904;
XX
XX 28-AUG-2002 (first entry)
XX
XX Zinc finger protein related peptide motif SEQ ID NO:3580.
XX
XX Zinc finger protein; ZFP; DNA binding protein; zinc finger.
XX
XX Homo sapiens.
XX Synthetic.
XX WO200242459-A2.
XX
XX 30-MAY-2002.
XX
XX 20-NOV-2001; 2001WO-US43438.
XX
XX 20-NOV-2000; 2000US-0716637.
XX
XX (SANG-) SANGAMO BIOSCIENCES INC.
XX
XX Liu Q;
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XX WPI; 2002-500284/53.
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XX
XX New zinc finger protein that binds to target site, useful in studying
XX gene function and for human therapeutics and plant engineering,
XX comprises first, second and third zinc fingers, ordered from N- to
XX C-terminus -
XX
XX Example 1; Page 55; 81pp; English.
XX
XX The present invention describes a zinc finger protein (I) that binds to
XX a target site, comprising a first (F1), a second (F2), and a third (F3)
XX zinc finger, ordered F1, F2, F3 from N-terminus to C-terminus, where the
XX target site comprises, in 3'-5' direction, a first (S1), a second (S2),
XX and a third (S3) target sub-site. Also described are: (1) a polypeptide
XX (II) comprising (I); (2) a polynucleotide (III) encoding (I) or (II); and
XX (3) designing (M) (I) involves selecting the F1 zinc finger such that
XX it binds to the S1 target sub-site, selecting the F2 zinc finger such
XX that it binds to the S2 target sub-site, and selecting the F3 zinc
XX finger such that it binds to the S3 target sub-site, thus designing (I)
XX that binds to a target site. (I) is useful for recognition of triplet
XX target sub-sites having the nucleotide G in the 5'-most position of the
XX sub-site. (I) is useful in studying gene function, and for human
XX therapeutics and plant engineering. (I), (II) or (III) is useful in
XX therapeutic methods to modulate the expression of a target region within
XX a subject, in diagnostic methods for sequence specific detection of
XX a target nucleic acid in a sample, and in assays to determined the
XX phenotype and function of gene expression. (I) has improved affinity
XX and specificity for their target sequences, as well as enhanced
XX biological activity. ABQ71213 to ABQ72214 and ABP48191 to ABP51230
XX represent DNA target sequences and zinc finger peptides which are given
XX in the exemplification of the present invention.
XX
XX Sequence 7 AA;

Query Match 100.0%; Score 36; DB 23; Length 7;
Best Local Similarity 100.0%; Pred. No. 9.3e+05;
Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 RSDHLSR 7
DB 1 RSDHLSR 7

RESULT 89
ABP49907
ID ABP49907 standard; Peptide: 7 AA.
AC ABP49907;
XX
XX 28-AUG-2002 (first entry)
XX
XX Zinc finger protein related peptide motif SEQ ID NO:3581.
XX
XX Zinc finger protein; ZFP; DNA binding protein; zinc finger.
XX
XX Homo sapiens.
XX Synthetic.
XX WO200242459-A2.
XX
XX 30-MAY-2002.
XX
XX 20-NOV-2001; 2001WO-US43438.
XX
XX 20-NOV-2000; 2000US-0716637.
XX
XX (SANG-) SANGAMO BIOSCIENCES INC.
XX
XX Liu Q;
XX
XX WPI; 2002-500284/53.
XX
XX
XX New zinc finger protein that binds to target site, useful in studying
XX gene function and for human therapeutics and plant engineering,
XX comprises first, second and third zinc fingers, ordered from N- to
XX C-terminus -
XX
XX Example 1; Page 55; 81pp; English.
XX
XX The present invention describes a zinc finger protein (I) that binds to
XX a target site, comprising a first (F1), a second (F2), and a third (F3)
XX zinc finger, ordered F1, F2, F3 from N-terminus to C-terminus, where the
XX target site comprises, in 3'-5' direction, a first (S1), a second (S2),
XX and a third (S3) target sub-site. Also described are: (1) a polypeptide
XX (II) comprising (I); (2) a polynucleotide (III) encoding (I) or (II); and
XX (3) designing (M) (I) involves selecting the F1 zinc finger such that
XX it binds to the S1 target sub-site, selecting the F2 zinc finger such
XX that it binds to the S2 target sub-site, and selecting the F3 zinc
XX finger such that it binds to the S3 target sub-site, thus designing (I)
XX that binds to a target site. (I) is useful for recognition of triplet
XX target sub-sites having the nucleotide G in the 5'-most position of the
XX sub-site. (I) is useful in studying gene function, and for human
XX therapeutics and plant engineering. (I), (II) or (III) is useful in
XX therapeutic methods to modulate the expression of a target region within
XX a subject, in diagnostic methods for sequence specific detection of
XX a target nucleic acid in a sample, and in assays to determined the
XX phenotype and function of gene expression. (I) has improved affinity
XX and specificity for their target sequences, as well as enhanced
XX biological activity. ABQ71213 to ABQ72214 and ABP48191 to ABP51230
XX represent DNA target sequences and zinc finger peptides which are given
XX in the exemplification of the present invention.
XX
XX Sequence 7 AA;

QY 1 RSDHLSR 7
 |||||
 Db 1 RSDHLSR 7

RESULT 90

ABP49988 standard; Peptide; 7 AA.

AC ABP49988;

DT 28-AUG-2002 (first entry)

DE Zinc finger protein related peptide motif SEQ ID NO:3608.

KM Zinc finger protein; ZFP; DNA binding protein; zinc finger.

OS Homo sapiens.

OS Synthetic.

PN WO200242459-A2.

PD 30-MAY-2002.

PF 20-NOV-2001; 2001MO-US43438.

PR 20-NOV-2000; 2000US-0716637.

PA (SANG-) SANGAMO BIOSCIENCES INC.

PI Liu Q;

DR WPI; 2002-500284/53.

PT New zinc finger protein that binds to target site, useful in studying

PT gene function and for human therapeutics and plant engineering,

PT comprises first, second and third zinc fingers, ordered from N- to

PT C-terminus

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Example 1; Page 56; 81pp; English.

The present invention describes a zinc finger protein (I) that binds to a target site, comprising a first (F1), a second (F2), and a third (F3) zinc finger, ordered F1, F2, F3 from N-terminus to C-terminus, where the target site comprises, in 3',-5' direction, a first (S1), a second (S2), and a third (S3) target subsequence. Also described are: (i) a polypeptide (II) comprising (I); (2) a polynucleotide (III) encoding (I) or (II); and (3) designing (M) (I) involves selecting the F1 zinc finger such that it binds to the S1 target subsequence, selecting the F2 zinc finger such that it binds to the S2 target subsequence, and selecting the F3 zinc finger such that it binds to the S3 target subsequence, thus designing (I) that binds to a target site. (I) is useful for recognition of triplet target subsequences having the nucleotide G in the 5'-most position of the subsequence. (I) is useful in studying gene function, and for human therapeutics and plant engineering. (II) or (III) is useful in therapeutic methods to modulate the expression of a target region within a subject, in diagnostic methods for sequence specific detection of a target nucleic acid in a sample, and in assays to determine the phenotype and function of gene expression. (I) has improved affinity and specificity for their target sequences, as well as enhanced biological activity. ABQ71213 to ABQ72214 and ABP48191 to ABP51230 represent DNA target sequences and zinc finger peptides which are given in the exemplification of the present invention.

Sequence 7 AA;

Query Match 100.0%; Score 36; DB 23; Length 7;
 Best Local Similarity 100.0%; Pred. No. 9.3e+05;
 Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 RSDHLSR 7
 |||||

Db 1 RSDHLSR 7

RESULT 91

ABP50011 standard; Peptide; 7 AA.

AC ABP50011;

DT 28-AUG-2002 (first entry)

DE Zinc finger protein related peptide motif SEQ ID NO:3116.

KM Zinc finger protein; ZFP; DNA binding protein; zinc finger.

OS Homo sapiens.

OS Synthetic.

PN WO200242459-A2.

PD 30-MAY-2002.

PF 20-NOV-2001; 2001MO-US43438.

PR 20-NOV-2000; 2000US-0716637.

PA (SANG-) SANGAMO BIOSCIENCES INC.

PI Liu Q;

DR WPI; 2002-500284/53.

PT New zinc finger protein that binds to target site, useful in studying

PT gene function and for human therapeutics and plant engineering,

PT comprises first, second and third zinc fingers, ordered from N- to

PT C-terminus

XX

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Example 1; Page 56; 81pp; English.

The present invention describes a zinc finger protein (I) that binds to a target site, comprising a first (F1), a second (F2), and a third (F3) zinc finger, ordered F1, F2, F3 from N-terminus to C-terminus, where the target site comprises, in 3',-5' direction, a first (S1), a second (S2), and a third (S3) target subsequence. Also described are: (i) a polypeptide (II) comprising (I); (2) a polynucleotide (III) encoding (I) or (II); and (3) designing (M) (I) involves selecting the F1 zinc finger such that it binds to the S1 target subsequence, selecting the F2 zinc finger such that it binds to the S2 target subsequence, and selecting the F3 zinc finger such that it binds to the S3 target subsequence, thus designing (I) that binds to a target site. (I) is useful for recognition of triplet target subsequences having the nucleotide G in the 5'-most position of the subsequence. (I) is useful in studying gene function, and for human therapeutics and plant engineering. (II) or (III) is useful in therapeutic methods to modulate the expression of a target region within a subject, in diagnostic methods for sequence specific detection of a target nucleic acid in a sample, and in assays to determine the phenotype and function of gene expression. (I) has improved affinity and specificity for their target sequences, as well as enhanced biological activity. ABQ71213 to ABQ72214 and ABP48191 to ABP51230 represent DNA target sequences and zinc finger peptides which are given in the exemplification of the present invention.

Sequence 7 AA;

Query Match 100.0%; Score 36; DB 23; Length 7;
 Best Local Similarity 100.0%; Pred. No. 9.3e+05;
 Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 RSDHLSR 7
 |||||
 Db 1 RSDHLSR 7

RESULT 92
 ID ABP50014 standard; Peptide; 7 AA.
 AC ABP50014;
 XX
 DT 28-AUG-2002 (first entry)
 DE Zinc finger protein related peptide motif SEQ ID NO:3117.
 XX
 KM Zinc finger protein; ZFP; DNA binding protein; zinc finger.
 XX
 OS Homo sapiens.
 OS Synthetic.
 PN WO200242459-A2.
 XX
 PD 30-MAY-2002.
 XX
 PF 20-NOV-2001; 2001WO-US43438.
 XX
 PR 20-NOV-2000; 2000US-0716637.
 XX
 PA (SANG-) SANGAMO BIOSCIENCES INC.
 XX
 PI Liu Q;
 XX
 DR WPI; 2002-500284/53.
 XX
 PT New zinc finger protein that binds to target site, useful in studying
 PT gene function and for human therapeutics and plant engineering,
 PT comprises first, second and third zinc fingers, ordered from N- to
 PT C-terminus -
 XX
 PS Example 1; Page 56; 81pp; English.
 XX
 CC The present invention describes a zinc finger protein (I) that binds to
 CC a target site, comprising a first (F1), a second (F2), and a third (F3)
 CC zinc finger, ordered F1, F2, F3 from N-terminus to C-terminus, where the
 CC target site comprises, in 3'-5' direction, a first (S1), a second (S2),
 CC and a third (S3) target sub-site. Also described are: (1) a polypeptide
 CC (II) comprising (I); (2) a polynucleotide (III) encoding (I) or (II); and
 CC (3) designing (M) (I) involves selecting the F1 zinc finger such that
 CC it binds to the S1 target sub-site, selecting the F2 zinc finger such
 CC that it binds to the S2 target sub-site, and selecting the F3 zinc
 CC finger such that it binds to the S3 target sub-site, thus designing (I)
 CC that binds to a target site. (I) is useful for recognition of triplet
 CC target sub-sites having the nucleotide G in the 5'-most position of the
 CC sub-site. (I) is useful in studying gene function, and for human
 CC therapeutics and plant engineering. (I), (II) or (III) is useful in
 CC therapeutic methods to modulate the expression of a target region within
 CC a subject, in diagnostic methods for sequence specific detection of
 CC target nucleic acid in a sample, and in assays to determine the
 CC phenotype and function of gene expression. (I) has improved affinity
 CC and specificity for their target sequences, as well as enhanced
 CC biological activity. ABQ71213 to ABQ72214 and ABP48191 to ABP51230
 CC represent DNA target sequences and zinc finger peptides which are given
 CC in the exemplification of the present invention.
 CC
 XX
 SQ Sequence 7 AA;
 XX
 Query Match 100.0%; Score 36; DB 23; Length 7;
 Best Local Similarity 100.0%; Pred. No. 9.3e+05;
 Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
 QY 1 RSDHLR 7
 DB 1 RSDHLR 7
 XX
 RESULT 93
 ID ABP50016 standard; Peptide; 7 AA.
 AC ABP50016
 XX

XX
 AC ABP50016;
 XX
 DT 28-AUG-2002 (first entry)
 DE Zinc finger protein related peptide motif SEQ ID NO:2618.
 XX
 KM Zinc finger protein; ZFP; DNA binding protein; zinc finger.
 XX
 OS Homo sapiens.
 OS Synthetic.
 PN WO200242459-A2.
 XX
 PD 30-MAY-2002.
 XX
 PF 20-NOV-2001; 2001WO-US43438.
 XX
 PR 20-NOV-2000; 2000US-0716637.
 XX
 PA (SANG-) SANGAMO BIOSCIENCES INC.
 XX
 PI Liu Q;
 XX
 DR WPI; 2002-500284/53.
 XX
 PT New zinc finger protein that binds to target site, useful in studying
 PT gene function and for human therapeutics and plant engineering,
 PT comprises first, second and third zinc fingers, ordered from N- to
 PT C-terminus -
 XX
 PS Example 1; Page 56; 81pp; English.
 XX
 CC The present invention describes a zinc finger protein (I) that binds to
 CC a target site, comprising a first (F1), a second (F2), and a third (F3)
 CC zinc finger, ordered F1, F2, F3 from N-terminus to C-terminus, where the
 CC target site comprises, in 3'-5' direction, a first (S1), a second (S2),
 CC and a third (S3) target sub-site. Also described are: (1) a polypeptide
 CC (II) comprising (I); (2) a polynucleotide (III) encoding (I) or (II); and
 CC (3) designing (M) (I) involves selecting the F1 zinc finger such that
 CC it binds to the S1 target sub-site, selecting the F2 zinc finger such
 CC that it binds to the S2 target sub-site, and selecting the F3 zinc
 CC finger such that it binds to the S3 target sub-site, thus designing (I)
 CC that binds to a target site. (I) is useful for recognition of triplet
 CC target sub-sites having the nucleotide G in the 5'-most position of the
 CC sub-site. (I) is useful in studying gene function, and for human
 CC therapeutics and plant engineering. (I), (II) or (III) is useful in
 CC therapeutic methods to modulate the expression of a target region within
 CC a subject, in diagnostic methods for sequence specific detection of
 CC target nucleic acid in a sample, and in assays to determine the
 CC phenotype and function of gene expression. (I) has improved affinity
 CC and specificity for their target sequences, as well as enhanced
 CC biological activity. ABQ71213 to ABQ72214 and ABP48191 to ABP51230
 CC represent DNA target sequences and zinc finger peptides which are given
 CC in the exemplification of the present invention.
 CC
 XX
 SQ Sequence 7 AA;
 XX
 Query Match 100.0%; Score 36; DB 23; Length 7;
 Best Local Similarity 100.0%; Pred. No. 9.3e+05;
 Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
 QY 1 RSDHLR 7
 DB 1 RSDHLR 7
 XX
 RESULT 94
 ID ABP50018 standard; Peptide; 7 AA.
 AC ABP50018
 XX

DT 28-AUG-2002 (first entry)
XX Zinc finger protein related peptide motif SEQ ID NO:2619.
XX Zinc finger protein; ZFP; DNA binding protein; zinc finger.
XX Homo sapiens.
OS Synthetic.
XX MO200242459-A2.
XX 30-MAY-2002.
XX 20-NOV-2001; 2001MO-US43438.
XX 20-NOV-2000; 2000US-0716637.
XX (SANG-) SANGAMO BIOSCIENCES INC.
XX Liu Q;
XX WPI; 2002-500284/53.
XX
XX New zinc finger protein that binds to target site, useful in studying
PT gene function and for human therapeutics and plant engineering,
PT comprises first, second and third zinc fingers, ordered from N- to
PT C-terminus -
XX
XX Example 1; Page 56; 81pp; English.
XX
XX The present invention describes a zinc finger protein (I) that binds to
CC a target site, comprising a first (F1), a second (F2), and a third (F3)
CC zinc finger, ordered F1, F2, F3 from N-terminus to C-terminus, where the
CC target site comprises, in 3'-5' direction, a first (S1), a second (S2),
CC and a third (S3) target subsequence. Also described are: (i) a polypeptide
CC (II) comprising (I); (2) a polynucleotide (III) encoding (I) or (II); and
CC (3) designing (IV) (I) involves selecting the F1 zinc finger such that
CC it binds to the S1 target subsequence, selecting the F2 zinc finger such
CC that it binds to the S2 target subsequence, and selecting the F3 zinc
CC finger such that it binds to the S3 target subsequence, thus designing (I)
CC that binds to a target site. (I) is useful for recognition of triplet
CC target subsequences having the nucleotide G in the 5'-most position of the
CC subsequence. (I) is useful in studying gene function, and for human
CC therapeutics and plant engineering. (II) or (III) is useful in
CC therapeutic methods to modulate the expression of a target region within
CC a subject, in diagnostic methods for sequence specific detection of
CC target nucleic acid in a sample, and in assays to determine the
CC phenotype and function of gene expression. (I) has improved affinity
CC and specificity for their target sequences, as well as enhanced
CC biological activity. ABQ71213 to ABQ72214 and ABP48191 to ABP51230
CC represent DNA target sequences and zinc finger peptides which are given
CC in the exemplification of the present invention.
XX
XX Sequence 7 AA;
SQ
XX
XX Query Match 100.0%; Score 36; DB 23; Length 7;
XX Best Local Similarity 100.0%; Pred. No. 9.3e+05;
XX Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
QY 1 RSDHLSR 7
DB 1 RSDHLSR 7
XX
XX RESULT 95
XX ABP50033
XX ID ABP50033 standard; Peptide; 7 AA.
XX AC ABP50033;
XX XX
XX 28-AUG-2002 (first entry)
XX DT
XX XX
XX Zinc finger protein related peptide motif SEQ ID NO:3623.
DE

XX XX
XX Zinc finger protein; ZFP; DNA binding protein; zinc finger.
XX Homo sapiens.
OS Synthetic.
XX MO200242459-A2.
XX 30-MAY-2002.
XX 20-NOV-2001; 2001MO-US43438.
XX 20-NOV-2000; 2000US-0716637.
XX (SANG-) SANGAMO BIOSCIENCES INC.
XX Liu Q;
XX WPI; 2002-500284/53.
XX
XX New zinc finger protein that binds to target site, useful in studying
PT gene function and for human therapeutics and plant engineering,
PT comprises first, second and third zinc fingers, ordered from N- to
PT C-terminus -
XX
XX Example 1; Page 56; 81pp; English.
XX
XX The present invention describes a zinc finger protein (I) that binds to
CC a target site, comprising a first (F1), a second (F2), and a third (F3)
CC zinc finger, ordered F1, F2, F3 from N-terminus to C-terminus, where the
CC target site comprises, in 3'-5' direction, a first (S1), a second (S2),
CC and a third (S3) target subsequence. Also described are: (i) a polypeptide
CC (II) comprising (I); (2) a polynucleotide (III) encoding (I) or (II); and
CC (3) designing (IV) (I) involves selecting the F1 zinc finger such that
CC it binds to the S1 target subsequence, selecting the F2 zinc finger such
CC that it binds to the S2 target subsequence, and selecting the F3 zinc
CC finger such that it binds to the S3 target subsequence, thus designing (I)
CC that binds to a target site. (I) is useful for recognition of triplet
CC target subsequences having the nucleotide G in the 5'-most position of the
CC subsequence. (I) is useful in studying gene function, and for human
CC therapeutics and plant engineering. (II) or (III) is useful in
CC therapeutic methods to modulate the expression of a target region within
CC a subject, in diagnostic methods for sequence specific detection of
CC target nucleic acid in a sample, and in assays to determine the
CC phenotype and function of gene expression. (I) has improved affinity
CC and specificity for their target sequences, as well as enhanced
CC biological activity. ABQ71213 to ABQ72214 and ABP48191 to ABP51230
CC represent DNA target sequences and zinc finger peptides which are given
CC in the exemplification of the present invention.
XX
XX Sequence 7 AA;
SQ
XX
XX Query Match 100.0%; Score 36; DB 23; Length 7;
XX Best Local Similarity 100.0%; Pred. No. 9.3e+05;
XX Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
QY 1 RSDHLSR 7
DB 1 RSDHLSR 7
XX
XX RESULT 96
XX ABP50036
XX ID ABP50036 standard; Peptide; 7 AA.
XX AC ABP50036;
XX XX
XX 28-AUG-2002 (first entry)
XX DT
XX XX
XX Zinc finger protein related peptide motif SEQ ID NO:3624.
XX XX
XX Zinc finger protein; ZFP; DNA binding protein; zinc finger.
XX

OS Homo sapiens.
OS Synthetic.
XX MO200242459-A2.
XX
XX 30-MAY-2002.
XX
XX 20-NOV-2001; 2001WO-US43438.
XX
XX 20-NOV-2000; 2000US-0716637.
XX
XX (SANG-) SANGAMO BIOSCIENCES INC.
XX
XX Liu Q;
XX WPI; 2002-500284/53.
XX
XX New zinc finger protein that binds to target site, useful in studying
PT gene function and for human therapeutics and plant engineering,
PT comprises first, second and third zinc fingers, ordered from N- to
PT C-terminus -
XX
XX Example 1; Page 56; 81pp; English.
XX
XX The present invention describes a zinc finger protein (I) that binds to
CC a target site, comprising a first (F1), a second (F2), and a third (F3)
CC zinc finger, ordered F1, F2, F3 from N-terminus to C-terminus, where the
CC target site comprises, in 3',-5' direction, a first (S1), a second (S2),
CC and a third (S3) target sub-site. Also described are: (1) a polypeptide
CC (II) comprising (I); (2) a polynucleotide (III) encoding (I) or (II); and
CC (3) designing (M) (I) involves selecting the F1 zinc finger such that
CC it binds to the S1 target sub-site, selecting the F2 zinc finger such
CC that it binds to the S2 target sub-site, and selecting the F3 zinc
CC finger such that it binds to the S3 target sub-site, thus designing (I)
CC that binds to a target site. (I) is useful for recognition of triplet
CC target sub-sites having the nucleotide G in the 5'-most position of the
CC sub-site. (I) is useful in studying gene function, and for human
CC therapeutics and plant engineering. (I), (II) or (III) is useful in
CC therapeutic methods to modulate the expression of a target region within
CC a subject, in diagnostic methods for sequence specific detection of
CC target nucleic acid in a sample, and in assays to determine the
CC phenotype and function of gene expression. (I) has improved affinity
CC and specificity for their target sequences, as well as enhanced
CC biological activity. ABQ71213 to ABQ72214 and ABP48191 to ABP51230
CC represent DNA target sequences and zinc finger peptides which are given
CC in the exemplification of the present invention.
XX
XX Sequence 7 AA;
XX
XX Query Match 100.0%; Score 36; DB 23; Length 7;
XX Best Local Similarity 100.0%; Pred. No. 9.3e+05;
XX Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
XX
XX QY 1 RSDHLSR 7
XX |||||
XX 1 RSDHLSR 7
XX
XX Db
XX
XX RESULT 97
XX ABP50039 standard; Peptide; 7 AA.
XX ID ABP50039;
XX AC ABP50039;
XX XX
XX 28-AUG-2002 (first entry)
XX
XX Zinc finger protein related peptide motif SEQ ID NO:3625.
XX DE
XX Zinc finger protein; ZFP; DNA binding protein; zinc finger.
XX KW
XX Homo sapiens.
XX OS Synthetic.
XX OS
XX PD

PN MO200242459-A2.
XX
XX 30-MAY-2002.
XX
XX 20-NOV-2001; 2001WO-US43438.
XX
XX 20-NOV-2000; 2000US-0716637.
XX
XX (SANG-) SANGAMO BIOSCIENCES INC.
XX
XX Liu Q;
XX WPI; 2002-500284/53.
XX
XX New zinc finger protein that binds to target site, useful in studying
PT gene function and for human therapeutics and plant engineering,
PT comprises first, second and third zinc fingers, ordered from N- to
PT C-terminus -
XX
XX Example 1; Page 56; 81pp; English.
XX
XX The present invention describes a zinc finger protein (I) that binds to
CC a target site, comprising a first (F1), a second (F2), and a third (F3)
CC zinc finger, ordered F1, F2, F3 from N-terminus to C-terminus, where the
CC target site comprises, in 3',-5' direction, a first (S1), a second (S2),
CC and a third (S3) target sub-site. Also described are: (1) a polypeptide
CC (II) comprising (I); (2) a polynucleotide (III) encoding (I) or (II); and
CC (3) designing (M) (I) involves selecting the F1 zinc finger such that
CC it binds to the S1 target sub-site, selecting the F2 zinc finger such
CC that it binds to the S2 target sub-site, and selecting the F3 zinc
CC finger such that it binds to the S3 target sub-site, thus designing (I)
CC that binds to a target site. (I) is useful for recognition of triplet
CC target sub-sites having the nucleotide G in the 5'-most position of the
CC sub-site. (I) is useful in studying gene function, and for human
CC therapeutics and plant engineering. (I), (II) or (III) is useful in
CC therapeutic methods to modulate the expression of a target region within
CC a subject, in diagnostic methods for sequence specific detection of
CC target nucleic acid in a sample, and in assays to determine the
CC phenotype and function of gene expression. (I) has improved affinity
CC and specificity for their target sequences, as well as enhanced
CC biological activity. ABQ71213 to ABQ72214 and ABP48191 to ABP51230
CC represent DNA target sequences and zinc finger peptides which are given
CC in the exemplification of the present invention.
XX
XX Sequence 7 AA;
XX
XX Query Match 100.0%; Score 36; DB 23; Length 7;
XX Best Local Similarity 100.0%; Pred. No. 9.3e+05;
XX Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
XX
XX QY 1 RSDHLSR 7
XX |||||
XX 1 RSDHLSR 7
XX
XX Db
XX
XX RESULT 98
XX ABP50072 standard; Peptide; 7 AA.
XX ID ABP50072;
XX AC ABP50072;
XX XX
XX 28-AUG-2002 (first entry)
XX
XX Zinc finger protein related peptide motif SEQ ID NO:3636.
XX DE
XX Zinc finger protein; ZFP; DNA binding protein; zinc finger.
XX KW
XX Homo sapiens.
XX OS Synthetic.
XX OS
XX PD

XX 20-NOV-2001; 2001WO-US43438.
 PP 20-NOV-2000; 2000US-0716637.
 XX (SANG-) SANGAMO BIOSCIENCES INC.
 PA
 PI Liu Q;
 XX WPI; 2002-500284/53.
 DR
 XX New zinc finger protein that binds to target site, useful in studying
 PT gene function and for human therapeutics and plant engineering,
 PT comprises first, second and third zinc fingers, ordered from N- to
 PT C-terminus -
 XX
 XX Example 1; Page 56; 81pp; English.
 PS
 XX The present invention describes a zinc finger protein (I) that binds to
 CC a target site, comprising a first (F1), a second (F2), and a third (F3)
 CC zinc finger, ordered F1, F2, F3 from N-terminus to C-terminus, where the
 CC target site comprises, in 3', 5' direction, a first (S1), a second (S2),
 CC and a third (S3) target sub-site. Also described are: (i) a polypeptide
 CC (II) comprising (I); (2) a polynucleotide (III) encoding (I) or (II); and
 CC (3) designing (M) (I) involves selecting the F1 zinc finger such that
 CC it binds to the S1 target sub-site, selecting the F2 zinc finger such
 CC that it binds to the S2 target sub-site, and selecting the F3 zinc
 CC finger such that it binds to the S3 target sub-site, thus designing (I)
 CC that binds to a target site. (I) is useful for recognition of triplet
 CC target sub-sites having the nucleotide G in the 5'-most position of the
 CC sub-site. (I) is useful in studying gene function, and for human
 CC therapeutics and plant engineering. (I), (II) or (III) is useful in
 CC therapeutic methods to modulate the expression of a target region within
 CC a subject, in diagnostic methods for sequence specific detection of
 CC target nucleic acid in a sample, and in assays to determine the
 CC phenotype and function of gene expression. (I) has improved affinity
 CC and specificity for their target sequences, as well as enhanced
 CC biological activity. ABQ71213 to ABQ72214 and ABP48191 to ABP51230
 CC represent DNA target sequences and zinc finger peptides which are given
 CC in the exemplification of the present invention.
 CC
 XX
 XX SQ Sequence 7 AA;
 XX
 XX Query Match 100.0%; Score 36; DB 23; Length 7;
 XX Best Local Similarity 100.0%; Pred. No. 9.3e+05;
 XX Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
 QY 1 RSDHLR 7
 DB 1 RSDHLR 7
 XX
 XX RESULT 99
 XX ID ABB50075 standard; Peptide; 7 AA.
 XX ABB50075;
 XX 28-AUG-2002 (first entry)
 DT
 XX Zinc finger protein related peptide motif SEQ ID NO:3637.
 DE
 XX Zinc finger protein; ZFP; DNA binding protein; zinc finger.
 KW
 XX Homo sapiens.
 OS Synthetic.
 XX MO200242459-A2.
 XX 30-MAY-2002.
 PD
 XX 20-NOV-2001; 2001WO-US43438.
 XX
 XX (SANG-) SANGAMO BIOSCIENCES INC.

PR 20-NOV-2000; 2000US-0716637.
 XX (SANG-) SANGAMO BIOSCIENCES INC.
 PA
 PI Liu Q;
 XX WPI; 2002-500284/53.
 DR
 XX New zinc finger protein that binds to target site, useful in studying
 PT gene function and for human therapeutics and plant engineering,
 PT comprises first, second and third zinc fingers, ordered from N- to
 PT C-terminus -
 XX
 XX Example 1; Page 56; 81pp; English.
 PS
 XX The present invention describes a zinc finger protein (I) that binds to
 CC a target site, comprising a first (F1), a second (F2), and a third (F3)
 CC zinc finger, ordered F1, F2, F3 from N-terminus to C-terminus, where the
 CC target site comprises, in 3', 5' direction, a first (S1), a second (S2),
 CC and a third (S3) target sub-site. Also described are: (i) a polypeptide
 CC (II) comprising (I); (2) a polynucleotide (III) encoding (I) or (II); and
 CC (3) designing (M) (I) involves selecting the F1 zinc finger such that
 CC it binds to the S1 target sub-site, selecting the F2 zinc finger such
 CC that it binds to the S2 target sub-site, and selecting the F3 zinc
 CC finger such that it binds to the S3 target sub-site, thus designing (I)
 CC that binds to a target site. (I) is useful for recognition of triplet
 CC target sub-sites having the nucleotide G in the 5'-most position of the
 CC sub-site. (I) is useful in studying gene function, and for human
 CC therapeutics and plant engineering. (I), (II) or (III) is useful in
 CC therapeutic methods to modulate the expression of a target region within
 CC a subject, in diagnostic methods for sequence specific detection of
 CC target nucleic acid in a sample, and in assays to determine the
 CC phenotype and function of gene expression. (I) has improved affinity
 CC and specificity for their target sequences, as well as enhanced
 CC biological activity. ABQ71213 to ABQ72214 and ABP48191 to ABP51230
 CC represent DNA target sequences and zinc finger peptides which are given
 CC in the exemplification of the present invention.
 CC
 XX
 XX SQ Sequence 7 AA;
 XX
 XX Query Match 100.0%; Score 36; DB 23; Length 7;
 XX Best Local Similarity 100.0%; Pred. No. 9.3e+05;
 XX Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
 QY 1 RSDHLR 7
 DB 1 RSDHLR 7
 XX
 XX RESULT 100
 XX ID ABB50108 standard; Peptide; 7 AA.
 XX ABB50108;
 XX 28-AUG-2002 (first entry)
 DT
 XX Zinc finger protein related peptide motif SEQ ID NO:3648.
 DE
 XX Zinc finger protein; ZFP; DNA binding protein; zinc finger.
 KW
 XX Homo sapiens.
 OS Synthetic.
 XX MO200242459-A2.
 XX 30-MAY-2002.
 PD
 XX 20-NOV-2001; 2001WO-US43438.
 XX
 XX 20-NOV-2000; 2000US-0716637.
 XX
 XX (SANG-) SANGAMO BIOSCIENCES INC.

XX Liu Q;
PI
XX
DR WPI, 2002-500284/53.
XX
XX
PT New zinc finger protein that binds to target site, useful in studying
PT gene function and for human therapeutics and plant engineering,
PT comprises first, second and third zinc fingers, ordered from N- to
PT C-terminus
XX
PS Example 1; Page 56; 81pp; English.
XX
CC The present invention describes a zinc finger protein (I) that binds to
CC a target site, comprising a first (F1), a second (F2), and a third (F3)
CC zinc finger, ordered F1, F2, F3 from N-terminus to C-terminus, where the
CC target site comprises, in 3',-5' direction, a first (S1), a second (S2),
CC and a third (S3) target sub-site. Also described are: (1) a polypeptide
CC (II) comprising (I); (2) a polynucleotide (III) encoding (I) or (II); and
CC (3) designing (M) (I) involves selecting the F1 zinc finger such that
CC it binds to the S1 target sub-site, selecting the F2 zinc finger such
CC that it binds to the S2 target sub-site, and selecting the F3 zinc
CC finger such that it binds to the S3 target sub-site, thus designing (I)
CC that binds to a target site. (I) is useful for recognition of triplet
CC target sub-sites having the nucleotide G in the 5'-most position of the
CC sub-site. (I) is useful in studying gene function, and for human
CC therapeutics and plant engineering. (I), (II) or (III) is useful in
CC therapeutic methods to modulate the expression of a target region within
CC a subject, in diagnostic methods for sequence specific detection of
CC target nucleic acid in a sample, and in assays to determined the
CC phenotype and function of gene expression. (I) has improved affinity
CC and specificity for their target sequences, as well as enhanced
CC biological activity. ABQ71213 to ABQ72214 and ABP48191 to ABP51230
CC represent DNA target sequences and zinc finger peptides which are given
CC in the exemplification of the present invention.
CC
SQ Sequence 7 AA;
XX
XX
Query Match 100.0%; Score 36; DB 23; Length 7;
Best Local Similarity 100.0%; Pred. No. 9.3e+05;
Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
QY 1 RSDHLSR 7
DB 1 RSDHLSR 7
XX
XX
RESULT 101
ABP50111
ID ABP50111 standard; Peptide; 7 AA.
XX
AC ABP50111;
XX
XX 28-AUG-2002 (first entry)
XX
XX Zinc finger protein related peptide motif SEQ ID NO:3649.
XX
XX Zinc finger protein; ZFP; DNA binding protein; zinc finger.
XX
XX Homo sapiens.
XX
XX Synthetic.
XX
XX WO200242459-A2.
XX
XX 30-MAY-2002.
XX
XX 20-NOV-2001; 2001WO-US43438.
XX
XX 20-NOV-2000; 2000US-0716637.
XX
XX (SANG-) SANGAMO BIOSCIENCES INC.
XX
XX Liu Q;
XX
XX

DR WPI, 2002-500284/53.
XX
XX
PT New zinc finger protein that binds to target site, useful in studying
PT gene function and for human therapeutics and plant engineering,
PT comprises first, second and third zinc fingers, ordered from N- to
PT C-terminus
XX
PS Example 1; Page 56; 81pp; English.
XX
CC The present invention describes a zinc finger protein (I) that binds to
CC a target site, comprising a first (F1), a second (F2), and a third (F3)
CC zinc finger, ordered F1, F2, F3 from N-terminus to C-terminus, where the
CC target site comprises, in 3',-5' direction, a first (S1), a second (S2),
CC and a third (S3) target sub-site. Also described are: (1) a polypeptide
CC (II) comprising (I); (2) a polynucleotide (III) encoding (I) or (II); and
CC (3) designing (M) (I) involves selecting the F1 zinc finger such that
CC it binds to the S1 target sub-site, selecting the F2 zinc finger such
CC that it binds to the S2 target sub-site, and selecting the F3 zinc
CC finger such that it binds to the S3 target sub-site, thus designing (I)
CC that binds to a target site. (I) is useful for recognition of triplet
CC target sub-sites having the nucleotide G in the 5'-most position of the
CC sub-site. (I) is useful in studying gene function, and for human
CC therapeutics and plant engineering. (I), (II) or (III) is useful in
CC therapeutic methods to modulate the expression of a target region within
CC a subject, in diagnostic methods for sequence specific detection of
CC target nucleic acid in a sample, and in assays to determined the
CC phenotype and function of gene expression. (I) has improved affinity
CC and specificity for their target sequences, as well as enhanced
CC biological activity. ABQ71213 to ABQ72214 and ABP48191 to ABP51230
CC represent DNA target sequences and zinc finger peptides which are given
CC in the exemplification of the present invention.
CC
SQ Sequence 7 AA;
XX
XX
Query Match 100.0%; Score 36; DB 23; Length 7;
Best Local Similarity 100.0%; Pred. No. 9.3e+05;
Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
QY 1 RSDHLSR 7
DB 1 RSDHLSR 7
XX
XX
RESULT 102
ABP50128
ID ABP50128 standard; Peptide; 7 AA.
XX
AC ABP50128;
XX
XX 28-AUG-2002 (first entry)
XX
XX Zinc finger protein related peptide motif SEQ ID NO:3155.
XX
XX Zinc finger protein; ZFP; DNA binding protein; zinc finger.
XX
XX Homo sapiens.
XX
XX Synthetic.
XX
XX WO200242459-A2.
XX
XX 30-MAY-2002.
XX
XX 20-NOV-2001; 2001WO-US43438.
XX
XX 20-NOV-2000; 2000US-0716637.
XX
XX (SANG-) SANGAMO BIOSCIENCES INC.
XX
XX Liu Q;
XX
XX WPI, 2002-500284/53.
XX
XX New zinc finger protein that binds to target site, useful in studying
XX

PT gene function and for human therapeutics and plant engineering,
PT comprises first, second and third zinc fingers, ordered from N- to
PT C-terminus

PS Example 1; Page 56; 81pp; English.

XX The present invention describes a zinc finger protein (I) that binds to
CC a target site, comprising a first (F1), a second (F2), and a third (F3)
CC zinc finger, ordered F1, F2, F3 from N-terminus to C-terminus, where the
CC target site comprises, in 3'-5' direction, a first (S1), a second (S2),
CC and a third (S3) target sub-site. Also described are: (i) a polypeptide
CC (II) comprising (I); (2) a polynucleotide (III) encoding (I) or (II); and
CC (3) designing (M) (I) involves selecting the F1 zinc finger such that
CC it binds to the S1 target sub-site, selecting the F2 zinc finger such
CC that it binds to the S2 target sub-site, and selecting the F3 zinc
CC finger such that it binds to the S3 target sub-site, thus designing (I)
CC that binds to a target site. (I) is useful for recognition of triplet
CC target sub-sites having the nucleotide G in the 5'-most position of the
CC sub-site. (I) is useful in studying gene function, and for human
CC therapeutics and plant engineering. (I), (II) or (III) is useful in
CC therapeutic methods to modulate the expression of a target region within
CC a subject, in diagnostic methods for sequence specific detection of
CC target nucleic acid in a sample, and in assays to determine the
CC phenotype and function of gene expression. (I) has improved affinity
CC and specificity for their target sequences, as well as enhanced
CC biological activity. ABQ71213 to ABQ72214 and ABP48191 to ABP51230
CC represent DNA target sequences and zinc finger peptides which are given
CC in the exemplification of the present invention.

XX Sequence 7 AA;

Query Match 100.0%; Score 36; DB 23; Length 7;

Best Local Similarity 100.0%; Pred. No. 9.3e+05; Mismatches 0; Indels 0; Gaps 0;

Qy 1 RSDHLSR 7
| | | | |
Db 1 RSDHLSR 7

RESULT 103

ID ABP50129 standard; Peptide; 7 AA.

XX AC ABP50129;

DT 28-AUG-2002 (first entry)

XX DE Zinc finger protein related peptide motif SEQ ID NO:3655.

XX KW Zinc finger protein; ZFP; DNA binding protein; zinc finger.

XX OS Homo sapiens.

XX OS Synthetic.

XX PN WO200242459-A2.

XX PD 30-MAY-2002.

XX PF 20-NOV-2001; 2001WO-US43438.

XX PR 20-NOV-2000; 2000US-0716637.

XX PA (SANG-) SANGAMO BIOSCIENCES INC.

XX PI Liu Q;

XX DR WPI; 2002-500284/53.

XX PT New zinc finger protein that binds to target site, useful in studying
PT gene function and for human therapeutics and plant engineering, to
PT comprises first, second and third zinc fingers, ordered from N- to
PT C-terminus

XX Example 1; Page 56; 81pp; English.

XX The present invention describes a zinc finger protein (I) that binds to
CC a target site, comprising a first (F1), a second (F2), and a third (F3)
CC zinc finger, ordered F1, F2, F3 from N-terminus to C-terminus, where the
CC target site comprises, in 3'-5' direction, a first (S1), a second (S2),
CC and a third (S3) target sub-site. Also described are: (i) a polypeptide
CC (II) comprising (I); (2) a polynucleotide (III) encoding (I) or (II); and
CC (3) designing (M) (I) involves selecting the F1 zinc finger such that
CC it binds to the S1 target sub-site, selecting the F2 zinc finger such
CC that it binds to the S2 target sub-site, and selecting the F3 zinc
CC finger such that it binds to the S3 target sub-site, thus designing (I)
CC that binds to a target site. (I) is useful for recognition of triplet
CC target sub-sites having the nucleotide G in the 5'-most position of the
CC sub-site. (I) is useful in studying gene function, and for human
CC therapeutics and plant engineering. (I), (II) or (III) is useful in
CC therapeutic methods to modulate the expression of a target region within
CC a subject, in diagnostic methods for sequence specific detection of
CC target nucleic acid in a sample, and in assays to determine the
CC phenotype and function of gene expression. (I) has improved affinity
CC and specificity for their target sequences, as well as enhanced
CC biological activity. ABQ71213 to ABQ72214 and ABP48191 to ABP51230
CC represent DNA target sequences and zinc finger peptides which are given
CC in the exemplification of the present invention.

XX Sequence 7 AA;

Query Match 100.0%; Score 36; DB 23; Length 7;

Best Local Similarity 100.0%; Pred. No. 9.3e+05; Mismatches 0; Indels 0; Gaps 0;

Qy 1 RSDHLSR 7
| | | | |
Db 1 RSDHLSR 7

RESULT 104

ID ABP50131 standard; Peptide; 7 AA.

XX AC ABP50131;

DT 28-AUG-2002 (first entry)

XX DE Zinc finger protein related peptide motif SEQ ID NO:3156.

XX KW Zinc finger protein; ZFP; DNA binding protein; zinc finger.

XX OS Homo sapiens.

XX OS Synthetic.

XX PN WO200242459-A2.

XX PD 30-MAY-2002.

XX PF 20-NOV-2001; 2001WO-US43438.

XX PR 20-NOV-2000; 2000US-0716637.

XX PA (SANG-) SANGAMO BIOSCIENCES INC.

XX PI Liu Q;

XX DR WPI; 2002-500284/53.

XX PT New zinc finger protein that binds to target site, useful in studying
PT gene function and for human therapeutics and plant engineering,
PT comprises first, second and third zinc fingers, ordered from N- to
PT C-terminus

PS Example 1; Page 56; 81pp; English.

CC The present invention describes a zinc finger protein (I) that binds to
CC a target site, comprising a first (F1), a second (F2), and a third (F3)
CC zinc finger, ordered F1, F2, F3 from N-terminus to C-terminus, where the
CC target site comprises, in 3'-5' direction, a first (S1), a second (S2),
CC and a third (S3) target sub-site. Also described are: (1) a polypeptide
CC (II) comprising (1); (2) a polynucleotide (III) encoding (1) or (II); and
CC (3) designing (M) (1) involves selecting the F1 zinc finger such that
CC it binds to the S1 target sub-site, selecting the F2 zinc finger such
CC that it binds to the S2 target sub-site, and selecting the F3 zinc
CC finger such that it binds to the S3 target sub-site, thus designing (1)
CC that binds to a target site. (1) is useful for recognition of triplet
CC target sub-sites having the nucleotide G in the 5'-most position of the
CC sub-site. (1) is useful in studying gene function, and for human
CC therapeutics and plant engineering. (1), (II) or (III) is useful in
CC therapeutic methods to modulate the expression of a target region within
CC a subject, in diagnostic methods for sequence specific detection of
CC a target nucleic acid in a sample, and in assays to determine the
CC phenotype and function of gene expression. (1) has improved affinity
CC and specificity for their target sequences. (1) as well as enhanced
CC biological activity. ABQ71213 to ABQ72214 and ABP48191 to ABP51230
CC represent DNA target sequences and zinc finger peptides which are given
CC in the exemplification of the present invention.

SQ Sequence 7 AA;

Query Match 100.0%; Score 36; DB 23; Length 7;
Best Local Similarity 100.0%; Pred. No. 9.3e+05;
Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 RSDHLSR 7
1 RSDHLSR 7

RESULT 105
ABP50132
ID ABP50132 standard; Peptide; 7 AA.
XX
AC ABP50132;
XX
DT 28-AUG-2002 (first entry)
XX
DE Zinc finger protein related peptide motif SEQ ID NO:3656.
XX
KM Zinc finger protein; ZFP; DNA binding protein; zinc finger.
XX
OS Homo sapiens.
OS Synthetic.
XX
PN WO200242459-A2.
XX
PD 30-MAY-2002.
XX
PF 20-NOV-2001; 2001WO-US43438.
XX
PR 20-NOV-2000; 2000US-0716637.
XX
PA (SANG-) SANGAMO BIOSCIENCES INC.
XX
PI Liu Q;
XX
DR WPI; 2002-500284/53.
XX
PT New zinc finger protein that binds to target site, useful in studying
PT gene function and for human therapeutics and plant engineering,
PT comprises first, second and third zinc fingers, ordered from N- to
PT C-terminus -
XX
PS Example 1; Page 56; 81pp; English.
XX
CC The present invention describes a zinc finger protein (I) that binds to
CC a target site, comprising a first (F1), a second (F2), and a third (F3)
CC zinc finger, ordered F1, F2, F3 from N-terminus to C-terminus, where the

CC target site comprises, in 3'-5' direction, a first (S1), a second (S2),
CC and a third (S3) target sub-site. Also described are: (1) a polypeptide
CC (II) comprising (1); (2) a polynucleotide (III) encoding (1) or (II); and
CC (3) designing (M) (1) involves selecting the F1 zinc finger such that
CC it binds to the S1 target sub-site, selecting the F2 zinc finger such
CC that it binds to the S2 target sub-site, and selecting the F3 zinc
CC finger such that it binds to the S3 target sub-site, thus designing (1)
CC that binds to a target site. (1) is useful for recognition of triplet
CC target sub-sites having the nucleotide G in the 5'-most position of the
CC sub-site. (1) is useful in studying gene function, and for human
CC therapeutics and plant engineering. (1), (II) or (III) is useful in
CC therapeutic methods to modulate the expression of a target region within
CC a subject, in diagnostic methods for sequence specific detection of
CC a target nucleic acid in a sample, and in assays to determine the
CC phenotype and function of gene expression. (1) has improved affinity
CC and specificity for their target sequences. (1) as well as enhanced
CC biological activity. ABQ71213 to ABQ72214 and ABP48191 to ABP51230
CC represent DNA target sequences and zinc finger peptides which are given
CC in the exemplification of the present invention.

SQ Sequence 7 AA;

Query Match 100.0%; Score 36; DB 23; Length 7;
Best Local Similarity 100.0%; Pred. No. 9.3e+05;
Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 RSDHLSR 7
1 RSDHLSR 7

RESULT 106
ABP50138
ID ABP50138 standard; Peptide; 7 AA.
XX
AC ABP50138;
XX
DT 28-AUG-2002 (first entry)
XX
DE Zinc finger protein related peptide motif SEQ ID NO:3658.
XX
KM Zinc finger protein; ZFP; DNA binding protein; zinc finger.
XX
OS Homo sapiens.
OS Synthetic.
XX
PN WO200242459-A2.
XX
PD 30-MAY-2002.
XX
PF 20-NOV-2001; 2001WO-US43438.
XX
PR 20-NOV-2000; 2000US-0716637.
XX
PA (SANG-) SANGAMO BIOSCIENCES INC.
XX
PI Liu Q;
XX
DR WPI; 2002-500284/53.
XX
PT New zinc finger protein that binds to target site, useful in studying
PT gene function and for human therapeutics and plant engineering,
PT comprises first, second and third zinc fingers, ordered from N- to
PT C-terminus -
XX
PS Example 1; Page 56; 81pp; English.
XX
CC The present invention describes a zinc finger protein (I) that binds to
CC a target site, comprising a first (F1), a second (F2), and a third (F3)
CC zinc finger, ordered F1, F2, F3 from N-terminus to C-terminus, where the
CC target site comprises, in 3'-5' direction, a first (S1), a second (S2),
CC and a third (S3) target sub-site. Also described are: (1) a polypeptide
CC (II) comprising (1); (2) a polynucleotide (III) encoding (1) or (II); and

CC (3) designing (M) (I) involves selecting the P1 zinc finger such that
 CC it binds to the S1 target subsite, selecting the P2 zinc finger such
 CC that it binds to the S2 target subsite, and selecting the P3 zinc
 CC finger such that it binds to the S3 target subsite, thus designing (I)
 CC that binds to a target site. (I) is useful for recognition of triplet
 CC target subsites having the nucleotide G in the 5'-most position of the
 CC subsite. (I) is useful in studying gene function, and for human
 CC therapeutics and plant engineering. (I), (II) or (III) is useful in
 CC therapeutic methods to modulate the expression of a target region within
 CC a subject, in diagnostic methods for sequence specific detection of
 CC target nucleic acid in a sample, and in assays to determined the
 CC phenotype and function of gene expression. (I) has improved affinity
 CC and specificity for their target sequences, as well as enhanced
 CC biological activity. ABQ71213 to ABQ72214 and ABP48191 to ABP51230
 CC represent DNA target sequences and zinc finger peptides which are given
 CC in the exemplification of the present invention.

CC Sequence 7 AA;

Query Match 100.0%; Score 36; DB 23; Length 7;

Best Local Similarity 100.0%; Pred. No. 9.3e+05; Mismatches 0; Indels 0; Gaps 0;

Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 RSDHLR 7
 Db 1 RSDHLR 7

RESULT 107

ABP50151
 ID ABP50151 standard; Peptide; 7 AA.

AC ABP50151;

DT 28-AUG-2002 (first entry)

DE Zinc finger protein related peptide motif SEQ ID NO:2663.

KM Zinc finger protein; ZFP; DNA binding protein; zinc finger.

OS Homo sapiens.

OS Synthetic.

PN WO200242459-A2.

PD 30-MAY-2002.

PR 20-NOV-2001; 2001WO-US43438.

PR 20-NOV-2000; 2000US-0716637.

PA (SANG-) SANGAMO BIOSCIENCES INC.

PI Liu Q;

DR WPI; 2002-500284/53.

PT New zinc finger protein that binds to target site, useful in studying
 PT gene function and for human therapeutics and plant engineering,
 PT comprises first, second and third zinc fingers, ordered from N- to
 PT C-terminus

PS Example 1; Page 57; 81pp; English.

CC The present invention describes a zinc finger protein (I) that binds to
 CC a target site, comprising a first (F1), a second (F2), and a third (F3)
 CC zinc finger, ordered F1, F2, F3 from N-terminus to C-terminus, where the
 CC target site comprises, in 3'-5' direction, a first (S1), a second (S2),
 CC and a third (S3) target subsite. Also described are: (i) a polypeptide
 CC (II) comprising (I); (2) a polynucleotide (III) encoding (I) or (II); and
 CC (3) designing (M) (I) involves selecting the P1 zinc finger such that
 CC it binds to the S1 target subsite, selecting the P2 zinc finger such
 CC that it binds to the S2 target subsite, and selecting the P3 zinc

CC finger such that it binds to the S3 target subsite, thus designing (I)
 CC that binds to a target site. (I) is useful for recognition of triplet
 CC target subsites having the nucleotide G in the 5'-most position of the
 CC subsite. (I) is useful in studying gene function, and for human
 CC therapeutics and plant engineering. (I), (II) or (III) is useful in
 CC therapeutic methods to modulate the expression of a target region within
 CC a subject, in diagnostic methods for sequence specific detection of
 CC target nucleic acid in a sample, and in assays to determined the
 CC phenotype and function of gene expression. (I) has improved affinity
 CC and specificity for their target sequences, as well as enhanced
 CC biological activity. ABQ71213 to ABQ72214 and ABP48191 to ABP51230
 CC represent DNA target sequences and zinc finger peptides which are given
 CC in the exemplification of the present invention.

CC Sequence 7 AA;

Query Match 100.0%; Score 36; DB 23; Length 7;

Best Local Similarity 100.0%; Pred. No. 9.3e+05; Mismatches 0; Indels 0; Gaps 0;

Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 RSDHLR 7
 Db 1 RSDHLR 7

RESULT 108

ABP50180
 ID ABP50180 standard; Peptide; 7 AA.

AC ABP50180;

DT 28-AUG-2002 (first entry)

DE Zinc finger protein related peptide motif SEQ ID NO:3672.

KM Zinc finger protein; ZFP; DNA binding protein; zinc finger.

OS Homo sapiens.

OS Synthetic.

PN WO200242459-A2.

PD 30-MAY-2002.

PR 20-NOV-2001; 2001WO-US43438.

PR 20-NOV-2000; 2000US-0716637.

PA (SANG-) SANGAMO BIOSCIENCES INC.

PI Liu Q;

DR WPI; 2002-500284/53.

PT New zinc finger protein that binds to target site, useful in studying
 PT gene function and for human therapeutics and plant engineering,
 PT comprises first, second and third zinc fingers, ordered from N- to
 PT C-terminus

PS Example 1; Page 57; 81pp; English.

CC The present invention describes a zinc finger protein (I) that binds to
 CC a target site, comprising a first (F1), a second (F2), and a third (F3)
 CC zinc finger, ordered F1, F2, F3 from N-terminus to C-terminus, where the
 CC target site comprises, in 3'-5' direction, a first (S1), a second (S2),
 CC and a third (S3) target subsite. Also described are: (i) a polypeptide
 CC (II) comprising (I); (2) a polynucleotide (III) encoding (I) or (II); and
 CC (3) designing (M) (I) involves selecting the P1 zinc finger such that
 CC it binds to the S1 target subsite, selecting the P2 zinc finger such
 CC that it binds to the S2 target subsite, and selecting the P3 zinc
 CC finger such that it binds to the S3 target subsite, thus designing (I)
 CC that binds to a target site. (I) is useful for recognition of triplet
 CC target subsites having the nucleotide G in the 5'-most position of the

CC subste. (I) is useful in studying gene function, and for human
 CC therapeutics and plant engineering. (I), (II) or (III) is useful in
 CC therapeutic methods to modulate the expression of a target region within
 CC a subject, in diagnostic methods for sequence specific detection of
 CC target nucleic acid in a sample, and in assays to determined affinity
 CC phenotype and function of gene expression. (I) has improved affinity
 CC and specificity for their target sequences, as well as enhanced
 CC biological activity. ABQ71213 to ABQ72214 and ABP48191 to ABP51230
 CC represent DNA target sequences and zinc finger peptides which are given
 CC in the exemplification of the present invention.

CC Sequence 7 AA;

Query Match 100.0%; Score 36; DB 23; Length 7;
 Best Local Similarity 100.0%; Pred. No. 9.3e+05;
 Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 RSDHLSR 7
 DB 1 RSDHLSR 7

RESULT 109

ABP50183
 ID ABP50183 standard; Peptide; 7 AA.

AC ABP50183;

DT 28-AUG-2002 (first entry)

DE Zinc finger protein related peptide motif SEQ ID NO:3673.

KM Zinc finger protein; ZFP; DNA binding protein; zinc finger.

OS Homo sapiens.

OS Synthetic.

PN WO200242459-A2.

PD 30-MAY-2002.

PF 20-NOV-2001; 2001WO-US43438.

PR 20-NOV-2000; 2000US-0716637.

PA (SANG-) SANGAMO BIOSCIENCES INC.

PI Liu Q;

DR WPI; 2002-500284/53.

XX New zinc finger protein that binds to target site, useful in studying

PT gene function and for human therapeutics and plant engineering,

PT comprises first, second and third zinc fingers, ordered from N- to

PT C-terminus

PS Example 1; Page 57; 81pp; English.

XX

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CC a subject, in diagnostic methods for sequence specific detection of
 CC target nucleic acid in a sample, and in assays to determined the
 CC phenotype and function of gene expression. (I) has improved affinity
 CC and specificity for their target sequences, as well as enhanced
 CC biological activity. ABQ71213 to ABQ72214 and ABP48191 to ABP51230
 CC represent DNA target sequences and zinc finger peptides which are given
 CC in the exemplification of the present invention.

CC Sequence 7 AA;

Query Match 100.0%; Score 36; DB 23; Length 7;
 Best Local Similarity 100.0%; Pred. No. 9.3e+05;
 Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 RSDHLSR 7
 DB 1 RSDHLSR 7

RESULT 110

ABP50285
 ID ABP50285 standard; Peptide; 7 AA.

AC ABP50285;

DT 28-AUG-2002 (first entry)

DE Zinc finger protein related peptide motif SEQ ID NO:3707.

KM Zinc finger protein; ZFP; DNA binding protein; zinc finger.

OS Homo sapiens.

OS Synthetic.

PN WO200242459-A2.

PD 30-MAY-2002.

PF 20-NOV-2001; 2001WO-US43438.

PR 20-NOV-2000; 2000US-0716637.

PA (SANG-) SANGAMO BIOSCIENCES INC.

PI Liu Q;

DR WPI; 2002-500284/53.

XX New zinc finger protein that binds to target site, useful in studying

PT gene function and for human therapeutics and plant engineering,

PT comprises first, second and third zinc fingers, ordered from N- to

PT C-terminus

PS Example 1; Page 57; 81pp; English.

XX

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CC and specificity for their target sequences, as well as enhanced
 CC biological activity. ABQ7213 to ABQ7224, and ABP48191 to ABP51230
 CC represent DNA target sequences and zinc finger peptides which are given
 CC in the exemplification of the present invention.

XX Sequence 7 AA;

Query Match 100.0%; Score 36; DB 23; Length 7;
 Best Local Similarity 100.0%; Pred. No. 9.3e+05;
 Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 RSDHLR 7
 Db 1 RSDHLR 7

RESULT 111

ABP50288
 ID ABP50288 standard; Peptide; 7 AA.

AC ABP50288;

DT 28-AUG-2002 (first entry)

DE Zinc finger protein related peptide motif SEQ ID NO:3708.

XX Zinc finger protein; ZFP; DNA binding protein; zinc finger.

XX Homo sapiens.

OS Synthetic.

PN WO200242459-A2.

PD 30-MAY-2002.

PF 20-NOV-2001; 2001WO-US43438.

PR 20-NOV-2000; 2000US-0716637.

PA (SANG-) SANGAMO BIOSCIENCES INC.

PI Liu Q;

DR WPI; 2002-500284/53.

PT New zinc finger protein that binds to target site, useful in studying
 PT gene function and for human therapeutics and plant engineering,
 PT comprises first, second and third zinc fingers, ordered from N- to
 PT C-terminus -

PS Example 1; Page 57; 81pp; English.

XX The present invention describes a zinc finger protein (I) that binds to
 CC a target site, comprising a first (F1), a second (F2), and a third (F3)
 CC zinc finger, ordered F1, F2, F3 from N-terminus to C-terminus, where the
 CC target site comprises, in 3'-5' direction, a first (S1), a second (S2),
 CC and a third (S3) target subunit. Also described are: (1) a polypeptide
 CC (II) comprising (I); (2) a polynucleotide (III) encoding (I) or (II); and
 CC (3) designing (M) (I) involves selecting the F1 zinc finger such that
 CC it binds to the S1 target subunit, selecting the F2 zinc finger such
 CC that it binds to the S2 target subunit, and selecting the F3 zinc
 CC finger such that it binds to the S3 target subunit, thus designing (I)
 CC that binds to a target site. (I) is useful for recognition of triplet
 CC target subunits having the nucleotide G in the 5'-most position of the
 CC subunit. (I) is useful in studying gene function, and for human
 CC therapeutics and plant engineering. (I), (II) or (III) is useful in
 CC therapeutic methods to modulate the expression of a target region within
 CC a subject, in diagnostic methods for sequence specific detection of
 CC target nucleic acid in a sample, and in assays to determine the
 CC phenotype and function of gene expression. (I) has improved affinity
 CC and specificity for their target sequences, as well as enhanced
 CC biological activity. ABQ7213 to ABQ7224 and ABP48191 to ABP51230
 CC represent DNA target sequences and zinc finger peptides which are given

CC in the exemplification of the present invention.

XX Sequence 7 AA;

Query Match 100.0%; Score 36; DB 23; Length 7;
 Best Local Similarity 100.0%; Pred. No. 9.3e+05;
 Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 RSDHLR 7
 Db 1 RSDHLR 7

RESULT 112

ABP50385
 ID ABP50385 standard; Peptide; 7 AA.

AC ABP50385;

DT 28-AUG-2002 (first entry)

DE Zinc finger protein related peptide motif SEQ ID NO:2741.

XX Zinc finger protein; ZFP; DNA binding protein; zinc finger.

XX Homo sapiens.

OS Synthetic.

PN WO200242459-A2.

PD 30-MAY-2002.

PF 20-NOV-2001; 2001WO-US43438.

PR 20-NOV-2000; 2000US-0716637.

PA (SANG-) SANGAMO BIOSCIENCES INC.

PI Liu Q;

DR WPI; 2002-500284/53.

PT New zinc finger protein that binds to target site, useful in studying
 PT gene function and for human therapeutics and plant engineering,
 PT comprises first, second and third zinc fingers, ordered from N- to
 PT C-terminus -

PS Example 1; Page 58; 81pp; English.

XX The present invention describes a zinc finger protein (I) that binds to
 CC a target site, comprising a first (F1), a second (F2), and a third (F3)
 CC zinc finger, ordered F1, F2, F3 from N-terminus to C-terminus, where the
 CC target site comprises, in 3'-5' direction, a first (S1), a second (S2),
 CC and a third (S3) target subunit. Also described are: (1) a polypeptide
 CC (II) comprising (I); (2) a polynucleotide (III) encoding (I) or (II); and
 CC (3) designing (M) (I) involves selecting the F1 zinc finger such that
 CC it binds to the S1 target subunit, selecting the F2 zinc finger such
 CC that it binds to the S2 target subunit, and selecting the F3 zinc
 CC finger such that it binds to the S3 target subunit, thus designing (I)
 CC that binds to a target site. (I) is useful for recognition of triplet
 CC target subunits having the nucleotide G in the 5'-most position of the
 CC subunit. (I) is useful in studying gene function, and for human
 CC therapeutics and plant engineering. (I), (II) or (III) is useful in
 CC therapeutic methods to modulate the expression of a target region within
 CC a subject, in diagnostic methods for sequence specific detection of
 CC target nucleic acid in a sample, and in assays to determine the
 CC phenotype and function of gene expression. (I) has improved affinity
 CC and specificity for their target sequences, as well as enhanced
 CC biological activity. ABQ7213 to ABQ7224 and ABP48191 to ABP51230
 CC represent DNA target sequences and zinc finger peptides which are given

XX Sequence 7 AA;

Query Match 100.0%; Score 36; DB 23; Length 7;
Best Local Similarity 100.0%; Pred. No. 9.3e+05;
Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 RSDHLR 7
DB 1 RSDHLR 7

RESULT 113

ABP50388
ID ABP50388 standard; Peptide; 7 AA.

AC ABP50388;

DT 28-AUG-2002 (first entry)

DE Zinc finger protein related peptide motif SEQ ID NO:2742.

XX Zinc finger protein; ZFP, DNA binding protein; zinc finger.

XX Homo sapiens.

OS Synthetic.

PN WO200242459-A2.

PD 30-MAY-2002.

PF 20-NOV-2001; 2001WO-US43438.

XX 20-NOV-2000; 2000US-0716637.

XX (SANG-) SANGAMO BIOSCIENCES INC.

PI Liu Q;

DR WPI; 2002-500284/53.

PT New zinc finger protein that binds to target site, useful in studying
PT gene function and for human therapeutics and plant engineering,
PT comprises first, second and third zinc fingers, ordered from N- to
PT C-terminus -

PS Example 1; Page 58; 81bp; English.

XX The present invention describes a zinc finger protein (I) that binds to
CC a target site, comprising a first (F1), a second (F2), and a third (F3)
CC zinc finger, ordered F1, F2, F3 from N-terminus to C-terminus, where the
CC target site comprises, in 3'-5' direction, a first (S1), a second (S2),
CC and a third (S3) target sub-site. Also described are: (1) a polypeptide
CC (II) comprising (I); (2) a polynucleotide (III) encoding (I) or (II); and
CC (3) designing (M) (I) involves selecting the F1 zinc finger such that
CC it binds to the S1 target sub-site, selecting the F2 zinc finger such
CC that it binds to the S2 target sub-site, and selecting the F3 zinc
CC finger such that it binds to the S3 target sub-site, thus designing (I)
CC that binds to a target site. (I) is useful for recognition of triplet
CC target sub-sites having the nucleotide G in the 5'-most position of the
CC sub-site. (I) is useful in studying gene function, and for human
CC therapeutics and plant engineering. (I), (II) or (III) is useful in
CC therapeutic methods to modulate the expression of a target region within
CC a subject, in diagnostic methods for sequence specific detection of
CC target nucleic acid in a sample, and in assays to determine affinity
CC phenotype and function of gene expression. (I) has improved affinity
CC and specificity for their target sequences, as well as enhanced
CC biological activity. ABQ71213 to ABQ72214 and ABP48191 to ABP51230
CC represent DNA target sequences and zinc finger peptides which are given
CC in the exemplification of the present invention.

XX Sequence 7 AA;

Query Match 100.0%; Score 36; DB 23; Length 7;
Best Local Similarity 100.0%; Pred. No. 9.3e+05;

Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 RSDHLR 7
DB 1 RSDHLR 7

RESULT 114

ABP50526
ID ABP50526 standard; Peptide; 7 AA.

AC ABP50526;

DT 28-AUG-2002 (first entry)

DE Zinc finger protein related peptide motif SEQ ID NO:2768.

XX Zinc finger protein; ZFP, DNA binding protein; zinc finger.

XX Homo sapiens.

OS Synthetic.

PN WO200242459-A2.

PD 30-MAY-2002.

PF 20-NOV-2001; 2001WO-US43438.

XX 20-NOV-2000; 2000US-0716637.

XX (SANG-) SANGAMO BIOSCIENCES INC.

PI Liu Q;

DR WPI; 2002-500284/53.

PT New zinc finger protein that binds to target site, useful in studying
PT gene function and for human therapeutics and plant engineering,
PT comprises first, second and third zinc fingers, ordered from N- to
PT C-terminus -

PS Example 1; Page 59; 81bp; English.

XX The present invention describes a zinc finger protein (I) that binds to
CC a target site, comprising a first (F1), a second (F2), and a third (F3)
CC zinc finger, ordered F1, F2, F3 from N-terminus to C-terminus, where the
CC target site comprises, in 3'-5' direction, a first (S1), a second (S2),
CC and a third (S3) target sub-site. Also described are: (1) a polypeptide
CC (II) comprising (I); (2) a polynucleotide (III) encoding (I) or (II); and
CC (3) designing (M) (I) involves selecting the F1 zinc finger such that
CC it binds to the S1 target sub-site, selecting the F2 zinc finger such
CC that it binds to the S2 target sub-site, and selecting the F3 zinc
CC finger such that it binds to the S3 target sub-site, thus designing (I)
CC that binds to a target site. (I) is useful for recognition of triplet
CC target sub-sites having the nucleotide G in the 5'-most position of the
CC sub-site. (I) is useful in studying gene function, and for human
CC therapeutics and plant engineering. (I), (II) or (III) is useful in
CC therapeutic methods to modulate the expression of a target region within
CC a subject, in diagnostic methods for sequence specific detection of
CC target nucleic acid in a sample, and in assays to determine affinity
CC phenotype and function of gene expression. (I) has improved affinity
CC and specificity for their target sequences, as well as enhanced
CC biological activity. ABQ71213 to ABQ72214 and ABP48191 to ABP51230
CC represent DNA target sequences and zinc finger peptides which are given
CC in the exemplification of the present invention.

XX Sequence 7 AA;

Query Match 100.0%; Score 36; DB 23; Length 7;
Best Local Similarity 100.0%; Pred. No. 9.3e+05;
Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 RSDHLR 7

Db 1 RSDHLR 7

RESULT 115
ABP50564 standard; Peptide; 7 AA.

AC ABP50564;

DT 28-AUG-2002 (first entry)

DE Zinc finger protein related peptide motif SEQ ID NO:3800.

KM Zinc finger protein; ZFP, DNA binding protein; zinc finger.

OS Homo sapiens.

OS Synthetic.

PN WO200242459-A2.

PD 30-MAY-2002.

PF 20-NOV-2001; 2001WO-US43438.

PR 20-NOV-2000; 2000US-0716637.

PA (SANG-) SANGAMO BIOSCIENCES INC.

PI Liu Q;

WP1; 2002-500284/53.

PT New zinc finger protein that binds to target site, useful in studying
PT gene function and for human therapeutics and plant engineering,
PT comprises first, second and third zinc fingers, ordered from N- to
PT C-terminus -

PS Example 1; Page 59; 81pp; English.

XX The present invention describes a zinc finger protein (I) that binds to
CC a target site, comprising a first (F1), a second (F2), and a third (F3)
CC zinc finger, ordered F1, F2, F3 from N-terminus to C-terminus, where the
CC target site comprises, in 3'-5' direction, a first (S1), a second (S2),
CC and a third (S3) target subsequence. Also described are: (I) a polypeptide
CC (I1) comprising (I); (2) a polynucleotide (I11) encoding (I) or (I1); and
CC (3) designing (M) (I) involves selecting the F1 zinc finger such that
CC it binds to the S1 target subsequence, selecting the F2 zinc finger such
CC that it binds to the S2 target subsequence, and selecting the F3 zinc
CC finger such that it binds to the S3 target subsequence, thus designing (I)
CC that binds to a target site. (I) is useful for recognition of triplet
CC target subsequences having the nucleotide G in the 5'-most position of the
CC subsequence. (I) is useful in studying gene function, and for human
CC therapeutics and plant engineering. (I1), (I11) or (I111) is useful in
CC therapeutic methods to modulate the expression of a target region within
CC a subject, in diagnostic methods for sequence specific detection of
CC target nucleic acid in a sample, and in assays to determine the
CC phenotype and function of gene expression. (I) has improved affinity
CC and specificity for their target sequences, as well as enhanced
CC biological activity. ABQ71213 to ABQ72214 and ABP48191 to ABP51230
CC represent DNA target sequences and zinc finger peptides which are given
CC in the exemplification of the present invention.

XX Sequence 7 AA;

Query Match 100.0%; Score 36; DB 23; Length 7;
Best Local Similarity 100.0%; Pred. No. 9.3e+05;
Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

OY 1 RSDHLR 7
DB 1 RSDHLR 7

RESULT 116
ABP50570 standard; Peptide; 7 AA.

AC ABP50570;

DT 28-AUG-2002 (first entry)

DE Zinc finger protein related peptide motif SEQ ID NO:3802.

KM Zinc finger protein; ZFP, DNA binding protein; zinc finger.

OS Homo sapiens.

OS Synthetic.

PN WO200242459-A2.

PD 30-MAY-2002.

PF 20-NOV-2001; 2001WO-US43438.

PR 20-NOV-2000; 2000US-0716637.

PA (SANG-) SANGAMO BIOSCIENCES INC.

PI Liu Q;

WP1; 2002-500284/53.

PT New zinc finger protein that binds to target site, useful in studying
PT gene function and for human therapeutics and plant engineering,
PT comprises first, second and third zinc fingers, ordered from N- to
PT C-terminus -

PS Example 1; Page 59; 81pp; English.

XX The present invention describes a zinc finger protein (I) that binds to
CC a target site, comprising a first (F1), a second (F2), and a third (F3)
CC zinc finger, ordered F1, F2, F3 from N-terminus to C-terminus, where the
CC target site comprises, in 3'-5' direction, a first (S1), a second (S2),
CC and a third (S3) target subsequence. Also described are: (I) a polypeptide
CC (I1) comprising (I); (2) a polynucleotide (I11) encoding (I) or (I1); and
CC (3) designing (M) (I) involves selecting the F1 zinc finger such that
CC it binds to the S1 target subsequence, selecting the F2 zinc finger such
CC that it binds to the S2 target subsequence, and selecting the F3 zinc
CC finger such that it binds to the S3 target subsequence, thus designing (I)
CC that binds to a target site. (I) is useful for recognition of triplet
CC target subsequences having the nucleotide G in the 5'-most position of the
CC subsequence. (I) is useful in studying gene function, and for human
CC therapeutics and plant engineering. (I1), (I11) or (I111) is useful in
CC therapeutic methods to modulate the expression of a target region within
CC a subject, in diagnostic methods for sequence specific detection of
CC target nucleic acid in a sample, and in assays to determine the
CC phenotype and function of gene expression. (I) has improved affinity
CC and specificity for their target sequences, as well as enhanced
CC biological activity. ABQ71213 to ABQ72214 and ABP48191 to ABP51230
CC represent DNA target sequences and zinc finger peptides which are given
CC in the exemplification of the present invention.

XX Sequence 7 AA;

Query Match 100.0%; Score 36; DB 23; Length 7;
Best Local Similarity 100.0%; Pred. No. 9.3e+05;
Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

OY 1 RSDHLR 7
DB 1 RSDHLR 7

RESULT 117
ABP50573

AC ABP50573standard; Peptide; 7 AA.
XX
XX ABP50573;
DE 28-AUG-2002 (first entry)
DT Zinc finger protein related peptide motif SEQ ID NO:3603.
ID Zinc finger protein; ZFP; DNA binding protein; zinc finger.
OS Homo sapiens.
XX Synthetic.
OS WO200242459-A2.
PN 30-MAY-2002.
PD PF 20-NOV-2001; 2001WO-US4438.
PR 20-NOV-2000; 2000US-071637.
PX (SANG-) SANGAMO BIOSCIENCES INC.
PI Liu Q;
PT WPI; 2002-500284/53.

XX New zinc finger protein that binds to target site, useful in studying
XX gene function and for human therapeutics and plant engineering,
XX comprises first, second and third zinc fingers, ordered from N- to
XX C-terminus -
PS Example 1; Page 59; 81pp; English.

XX The present invention describes a zinc finger protein (I) that binds to
XX a target site, comprising a first (F1), a second (F2), and a third (F3)
XX zinc finger, ordered F1, F2, F3 from N-terminus to C-terminus, where the
XX target site comprises, in 3'-5' direction, a first (S1), a second (S2),
XX and a third (S3) target subsite. Also described are: (1) a polypeptide
XX (II) comprising (I); (2) a polynucleotide (III) encoding (I) or (II); and
XX (3) designating (M) (I) involves selecting the F1 zinc finger such that
XX it binds to the S1 target subsite, selecting the F2 zinc finger such
XX that it binds to the S2 target subsite, and selecting the F3 zinc
XX finger such that it binds to the S3 target subsite, thus designating (I)
XX that binds to a target site. (I) is useful for recognition of triplet
XX target subsites having the nucleotide G in the 5'-most position of the
XX subsite. (I) is useful in studying gene function, and for human
XX therapeutics and plant engineering. (I), (II) or (III) is useful in
XX therapeutic methods to modulate the expression of a target region within
XX a subject, in diagnostic methods for sequence specific detection of
XX target nucleic acid in a sample, and in assays to determine the
XX phenotype and function of gene expression. (I) has improved affinity
XX and specificity for their target sequences, as well as enhanced
XX biological activity. ABQ71213 to ABQ72214 and ABP48191 to ABP1230
XX represent DNA target sequences and zinc finger peptides which are given
XX in the exemplification of the present invention.

SQ Sequence 7 AA:

Query Match 100.0%; Score 36; DB 23; Length 7;
Best Local Similarity 100.0%; Pred. No. 9.3e+05;
Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0.

CY 1 RSDHLR 7
|||
DB 1 RSDHLR 7

RESULT 118
ABP50606
ID ABP50606 standard; Peptide; 7 AA.
XX
XX ABP50606;

XX 28-AUG-2002 (first entry)
DT
XX zinc finger protein related peptide motif SEQ ID NO:3614.
DE
XX Zinc finger protein; ZFP; DNA binding protein; zinc finger.
KM
XX Hemo sapiens.
OS
XX Synthetic.
PN MO200242459-A2.
XX
PD 30-MAY-2002.
PP
PR 20-NOV-2001; 2001WO-US43436.
XX
PR 20-NOV-2000; 2000US-0716637.
XX
PA (SANG-) SANGAMO BIOSCIENCES INC.
PI Liu Q;
DR WPI; 2002-500284/53.
XX
PT New zinc finger protein that binds to target site, useful in studying gene function and for human therapeutics and plant engineering,
PT comprises first, second and third zinc fingers, ordered from N'-to C-terminus -
PS Example 1; Page 60; 81pp; English.
XX
CC The present invention describes a zinc finger protein (I) that binds to a target site, comprising a first (F1), a second (F2), and a third (F3) zinc finger, ordered F1, F2, F3 from N'-terminus to C-terminus, where the target site comprises, in 3'-5' direction, a first (S1), a second (S2), and a third (S3) target subsite. Also described are: (i) a polypeptide (II) comprising (I); (2) a polynucleotide (III) encoding (I) or (II); and (i) binds to the S1 target subsite, selecting the F1 zinc finger such that it binds to the S2 target subsite, and selecting the F3 zinc finger such that it binds to the S3 target subsite, thus designing (I) that binds to a target site. (I) is useful for recognition of triplet target subsites having the nucleotide G in the 5'-most position of the target subsite. (I) is useful in studying gene function, and for human therapeutics and plant engineering. (I), (II) or (III) is useful in therapeutic methods to modulate the expression of a target region within a subject, in diagnostic methods for sequence specific detection of a phenotypic and function of gene expression. (I) has improved affinity and specificity for their target sequences, as well as enhanced biological activity. ABQ71213 to ABQ72214 and ABE48191 to ABE51230 CC represent DNA target sequences and zinc finger peptides which are given in the exemplification of the present invention.

XX SQ Sequence 7 AA;

Query Match 100.0%; Score 36; DB 23; Length 7;
Best Local Similarity 100.0%; Pred. No. 9.3e+05;
Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0

OY 1 RSDHLSR 7
|||
DB 1 RSDHLSR 7

RESULT 119
ABP50609
ID ABP50609 standard; Peptide; 7 AA.
AC
XX ABP50609;
XX
DT 28-AUG-2002 (first entry)

DE Zinc finger protein related peptide motif SEQ ID NO:3815.
 XX Zinc finger protein; ZFP; DNA binding protein; zinc finger.
 KW
 XX Homo sapiens.
 OS Synthetic.
 XX
 XX MO200242459-A2.
 PN
 XX 30-MAY-2002.
 PD
 XX 20-NOV-2001; 2001WO-US43438.
 XX
 XX 20-NOV-2000; 2000US-0716637.
 PR
 XX (SANG-) SANGAMO BIOSCIENCES INC.
 PA
 XX
 XX Liu Q;
 PI
 XX WPI; 2002-500284/53.
 DR
 XX
 XX New zinc finger protein that binds to target site, useful in studying
 PT gene function and for human therapeutics and plant engineering; to
 PT comprises first, second and third zinc fingers, ordered from N- to
 PT C-terminus -
 XX
 XX Example 1; Page 60; 81bp; English.
 PS
 CC The present invention describes a zinc finger protein (I) that binds to
 CC a target site, comprising a first (F1), a second (F2), and a third (F3)
 CC zinc finger, ordered F1, F2, F3 from N-terminus to C-terminus, where the
 CC target site comprises, in 3'-5' direction, a first (S1), a second (S2),
 CC and a third (S3) target sub-site. Also described are: (i) a polypeptide
 CC (II) comprising (I); (2) a polynucleotide (III) encoding (I) or (II); and
 CC (3) designing (M) (I) involves selecting the F1 zinc finger such that
 CC it binds to the S1 target sub-site, selecting the F2 zinc finger such
 CC that it binds to the S2 target sub-site, and selecting the F3 zinc
 CC finger such that it binds to the S3 target sub-site, thus designing (I)
 CC that binds to a target site. (I) is useful for recognition of triplet
 CC target sub-sites having the nucleotide G in the 5'-most position of the
 CC sub-site. (I) is useful in studying gene function, and for human
 CC therapeutics and plant engineering. (I), (II) or (III) is useful in
 CC therapeutic methods to modulate the expression of a target region within
 CC a subject, in diagnostic methods for sequence specific detection of
 CC target nucleic acid in a sample, and in assays to determine the
 CC phenotype and function of gene expression. (I) has improved affinity
 CC and specificity for their target sequences, as well as enhanced
 CC biological activity. ABQ71213 to ABQ72214 and ABP48191 to ABP51230
 CC represent DNA target sequences and zinc finger peptides which are given
 CC in the exemplification of the present invention.
 XX
 SQ Sequence 7 AA;
 Query Match 100.0%; Score 36; DB 23; Length 7;
 Best Local Similarity 100.0%; Pred. No. 9.3e+05;
 Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

XX Homo sapiens.
 OS Synthetic.
 XX
 XX MO200242459-A2.
 PN
 XX 30-MAY-2002.
 PD
 XX 20-NOV-2001; 2001WO-US43438.
 XX
 XX 20-NOV-2000; 2000US-0716637.
 PR
 XX (SANG-) SANGAMO BIOSCIENCES INC.
 PA
 XX
 XX Liu Q;
 PI
 XX WPI; 2002-500284/53.
 DR
 XX
 XX New zinc finger protein that binds to target site, useful in studying
 PT gene function and for human therapeutics and plant engineering,
 PT comprises first, second and third zinc fingers, ordered from N- to
 PT C-terminus -
 XX
 XX Example 1; Page 60; 81bp; English.
 PS
 CC The present invention describes a zinc finger protein (I) that binds to
 CC a target site, comprising a first (F1), a second (F2), and a third (F3)
 CC zinc finger, ordered F1, F2, F3 from N-terminus to C-terminus, where the
 CC target site comprises, in 3'-5' direction, a first (S1), a second (S2),
 CC and a third (S3) target sub-site. Also described are: (i) a polypeptide
 CC (II) comprising (I); (2) a polynucleotide (III) encoding (I) or (II); and
 CC (3) designing (M) (I) involves selecting the F1 zinc finger such that
 CC it binds to the S1 target sub-site, selecting the F2 zinc finger such
 CC that it binds to the S2 target sub-site, and selecting the F3 zinc
 CC finger such that it binds to the S3 target sub-site, thus designing (I)
 CC that binds to a target site. (I) is useful for recognition of triplet
 CC target sub-sites having the nucleotide G in the 5'-most position of the
 CC sub-site. (I) is useful in studying gene function, and for human
 CC therapeutics and plant engineering. (I), (II) or (III) is useful in
 CC therapeutic methods to modulate the expression of a target region within
 CC a subject, in diagnostic methods for sequence specific detection of
 CC target nucleic acid in a sample, and in assays to determine the
 CC phenotype and function of gene expression. (I) has improved affinity
 CC and specificity for their target sequences, as well as enhanced
 CC biological activity. ABQ71213 to ABQ72214, and ABP48191 to ABP51230
 CC represent DNA target sequences and zinc finger peptides which are given
 CC in the exemplification of the present invention.
 XX
 SQ Sequence 7 AA;
 Query Match 100.0%; Score 36; DB 23; Length 7;
 Best Local Similarity 100.0%; Pred. No. 9.3e+05;
 Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

XX PN WO200242459-A2.
XX PD 30-MAY-2002.
XX PF 20-NOV-2001, 2001WO-US43438.
XX PR 20-NOV-2000, 2000US-0716637.
XX PA (SANG-) SANGAMO BIOSCIENCES INC.
XX PI Liu Q;
XX DR WPI; 2002-500284/53.
XX PT New zinc finger protein that binds to target site, useful in studying
XX PT gene function and for human therapeutics and plant engineering,
XX PT comprises first, second and third zinc fingers, ordered from N- to
XX PT C-terminus -
XX PS Example 1; Page 60; 81pp; English.
XX XX
XX The present invention describes a zinc finger protein (I) that binds to
XX a target site, comprising a first (F1), a second (F2), and a third (F3)
XX zinc finger, ordered F1, F2, F3 from N-terminus to C-terminus, where the
XX target site comprises, in 3'-5' direction, a first (S1), a second (S2),
XX and a third (S3) target sub-site. Also described are: (i) a polypeptide
XX (ii) comprising (i); (2) a polynucleotide (iii) encoding (i) or (ii); and
XX (i) binds to the S1 target sub-site, selecting the F1 zinc finger such that
XX it binds to the S2 target sub-site, and selecting the F2 zinc finger such
XX that it binds to the S3 target sub-site, thus designing (I)
XX a zinc finger such that it binds to the S3 target sub-site, thus designing (I)
XX that binds to a target site. (I) is useful for recognition of triplet
XX target sub-sites having the nucleotide G in the 5'-most position of the
XX sub-site. (I) is useful in studying gene function, and for human
XX therapeutics and plant engineering. (i), (ii) or (iii) is useful in
XX therapeutic methods to modulate the expression of a target region within
XX a subject, in diagnostic methods for sequence specific detection of
XX a target nucleic acid in a sample, and in assays to determine the
XX phenotypic and function of gene expression. (I) has improved affinity
XX and specificity for their target sequences, as well as enhanced
XX biological activity. ABQ71213 to ABQ72214 and ABP48191 to ABP51230
XX represent DNA target sequences and zinc finger peptides which are given
XX in the exemplification of the present invention.
XX SQ Sequence 7 AA;
XX
XX Query Match 100.0%; Score 36; DB 23; Length 7;
XX Best Local Similarity 100.0%; Pred. No. 9.3e+05;
XX Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0.
XX
XX QY 1 RSDHLSR 7
XX |||||
XX 1 RSDHLSR 7
XX
XX RESULT 122
XX ABB50744
XX ID ABB50744 standard; Peptide; 7 AA.
XX
XX ABB50744;
XX
XX DT 28-AUG-2002 (first entry)
XX
XX DE Zinc finger protein related peptide motif SEQ ID NO:3860.
XX
XX ZM Zinc finger protein; ZFP; DNA binding protein; zinc finger.
XX
XX OS Homo sapiens.
XX OS Synthetic.
XX
XX PN WO200242459-A2.
XX

PD	30-MAY-2002.
PF	20-NOV-2001; 2001WO-US43438.
XX	20-NOV-2000; 2000US-0716637.
PR	(SANG-) SANGAMO BIOSCIENCES INC.
PA	Liu Q;
PB	WPI; 2002-500284/53.
DR	New zinc finger protein that binds to target site, useful in studying
PT	gene function and for human therapeutics and plant engineering,
PT	comprises first, second and third zinc fingers, ordered from N-
PT	C-terminus -
XX	Example 1; Page 60; 81pp; English.
PS	The present invention describes a zinc finger protein (I) that binds to
XX	a target site, comprising a first (F1), a second (F2), and a third (F3)
CC	zinc finger, ordered F1, F2, F3 from N-terminus to C-terminus, where the
CC	target site comprises, in 3'-5' direction, a first (S1), a second (S2),
CC	and a third (S3) target substrate. Also described are: (1) a polypeptide
CC	(II) comprising (I); (2) a polynucleotide (III) encoding (I) or (II); and
CC	(3) designing (M) (I) involves selecting the F1 zinc finger such that
CC	it binds to the S1 target substrate, selecting the F2 zinc finger such
CC	that it binds to the S2 target substrate, and selecting the F3 zinc
CC	finger such that it binds to the S3 target substrate, thus designing (I)
CC	that binds to a target site. (I) is useful for recognition of triplet
CC	target substrates having the nucleotide G in the 5'-most position of the
CC	substrate. (I) is useful in studying gene function, and for human
CC	therapeutics and plant engineering. (I), (II) or (III) is useful in
CC	therapeutic methods to modulate the expression of a target region within
CC	a subject, in diagnostic methods for sequence specific detection of
CC	the target nucleic acid in a sample, and in assays to determined the
CC	phenotype and function of gene expression. (I) has improved affinity
CC	and specificity for their target sequences, as well as enhanced
CC	biological activity. ABG71213 to ABG72214 and ABP48191 to ABP51230
CC	represent DNA target sequences and zinc finger peptides which are given
CC	in the exemplification of the present invention.
XX	
SQ	Sequence 7 AA;
Query Match	100.0%; Score 36; DB 23; Length 7;
Best Local Similarity	100.0%; Pred. No. 9.3e+05;
Matches 7; Conservative	0; Mismatches 0; Indels 0; Gaps 0;
OY	1 RSDHLSR 7
Db	1 RSDHLSR 7
RESULT 123	
ID	ABP50807 standard; Peptide; 7 AA.
AC	ABP50807;
XX	ABP50807;
DT	28-AUG-2002 (first entry)
DE	Zinc finger protein related peptide motif SEQ ID NO:3881.
XX	Zinc finger protein; ZFP; DNA binding protein; zinc finger.
XX	Homo sapiens.
OS	Synthetic.
XX	MO200242459-A2.
PN	30-MAY-2002.
PD	20-NOV-2001; 2001WO-US43438.
XX	

XX 20-NOV-2000; 2000US-0716637.
 PR (SANG-) SANGAMO BIOSCIENCES INC.
 PA Liu Q;
 XX WPI; 2002-500284/53.
 DR New zinc finger protein that binds to target site, useful in studying
 XX gene function and for human therapeutics and plant engineering,
 PT comprises first, second and third zinc fingers, ordered from N- to
 PT C-terminus -
 PS Example 1; Page 61; 81pp; English.
 XX The present invention describes a zinc finger protein (I) that binds to
 CC a target site, comprising a first (F1), a second (F2), and a third (F3)
 CC zinc finger, ordered F1, F2, F3 from N-terminus to C-terminus, where the
 CC target site comprises, in 3'-5' direction, a first (S1), a second (S2),
 CC and a third (S3) target sub-site. Also described are: (1) a polypeptide
 CC (II) comprising (I); (2) a polynucleotide (III) encoding (I) or (II); and
 CC (3) designing (W) (I) involves selecting the F1 zinc finger such that
 CC it binds to the S1 target sub-site, selecting the F2 zinc finger such
 CC that it binds to the S2 target sub-site, and selecting the F3 zinc
 CC finger such that it binds to the S3 target sub-site, thus designing (I)
 CC that binds to a target site. (I) is useful for recognition of triplet
 CC target sub-sites having the nucleotide G in the 5'-most position of the
 CC sub-site. (I) is useful in studying gene function, and for human
 CC therapeutics and plant engineering. (I), (II) or (III) is useful in
 CC diagnostic methods to modulate the expression of a target region within
 CC a subject, in diagnostic methods for sequence specific detection of
 CC target nucleic acid in a sample, and in assays to determine the
 CC phenotype and function of gene expression. (I) has improved affinity
 CC and specificity for their target sequences, as well as enhanced
 CC biological activity. ABQ71213 to ABQ72214 and ABP48191 to ABP51230
 CC represent DNA target sequences and zinc finger peptides which are given
 CC in the exemplification of the present invention.
 XX Sequence 7 AA;
 SQ
 Query Match 100.0%; Score 36; DB 23; Length 7;
 Best Local Similarity 100.0%; Pred. No. 9.3e+05;
 Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
 QY 1 RSDHLRSR 7
 Db 1 RSDHLRSR 7
 RESULT 124
 ABP50810
 ID ABP50810 standard; Peptide; 7 AA.
 AC ABP50810;
 XX 28-AUG-2002 (first entry)
 DT Zinc finger protein related peptide motif SEQ ID NO:3882.
 DE Zinc finger protein related peptide motif SEQ ID NO:3882.
 XX Zinc finger protein; ZFP; DNA binding protein; zinc finger.
 XX Homo sapiens.
 OS Synthetic.
 PN WO200242459-A2.
 XX 30-MAY-2002.
 PD 20-NOV-2001; 2001WO-US43438.
 PR 20-NOV-2000; 2000US-0716637.
 XX 20-NOV-2000; 2000US-0716637.
 XX

PA (SANG-) SANGAMO BIOSCIENCES INC.
 XX Liu Q;
 XX WPI; 2002-500284/53.
 DR New zinc finger protein that binds to target site, useful in studying
 XX gene function and for human therapeutics and plant engineering,
 PT comprises first, second and third zinc fingers, ordered from N- to
 PT C-terminus -
 PS Example 1; Page 61; 81pp; English.
 XX The present invention describes a zinc finger protein (I) that binds to
 CC a target site, comprising a first (F1), a second (F2), and a third (F3)
 CC zinc finger, ordered F1, F2, F3 from N-terminus to C-terminus, where the
 CC target site comprises, in 3'-5' direction, a first (S1), a second (S2),
 CC and a third (S3) target sub-site. Also described are: (1) a polypeptide
 CC (II) comprising (I); (2) a polynucleotide (III) encoding (I) or (II); and
 CC (3) designing (W) (I) involves selecting the F1 zinc finger such that
 CC it binds to the S1 target sub-site, selecting the F2 zinc finger such
 CC that it binds to the S2 target sub-site, and selecting the F3 zinc
 CC finger such that it binds to the S3 target sub-site, thus designing (I)
 CC that binds to a target site. (I) is useful for recognition of triplet
 CC target sub-sites having the nucleotide G in the 5'-most position of the
 CC sub-site. (I) is useful in studying gene function, and for human
 CC therapeutics and plant engineering. (I), (II) or (III) is useful in
 CC diagnostic methods to modulate the expression of a target region within
 CC a subject, in diagnostic methods for sequence specific detection of
 CC target nucleic acid in a sample, and in assays to determine the
 CC phenotype and function of gene expression. (I) has improved affinity
 CC and specificity for their target sequences, as well as enhanced
 CC biological activity. ABQ71213 to ABQ72214 and ABP48191 to ABP51230
 CC represent DNA target sequences and zinc finger peptides which are given
 CC in the exemplification of the present invention.
 XX Sequence 7 AA;
 SQ
 Query Match 100.0%; Score 36; DB 23; Length 7;
 Best Local Similarity 100.0%; Pred. No. 9.3e+05;
 Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
 QY 1 RSDHLRSR 7
 Db 1 RSDHLRSR 7
 RESULT 125
 ABP50834
 ID ABP50834 standard; Peptide; 7 AA.
 AC ABP50834;
 XX 28-AUG-2002 (first entry)
 DT Zinc finger protein related peptide motif SEQ ID NO:3890.
 DE Zinc finger protein related peptide motif SEQ ID NO:3890.
 XX Zinc finger protein; ZFP; DNA binding protein; zinc finger.
 XX Homo sapiens.
 OS Synthetic.
 PN WO200242459-A2.
 XX 30-MAY-2002.
 PD 20-NOV-2001; 2001WO-US43438.
 PR 20-NOV-2000; 2000US-0716637.
 XX (SANG-) SANGAMO BIOSCIENCES INC.
 PA Liu Q;
 XX

XX WPI; 2002-500284/53.
 DR New zinc finger protein that binds to target site, useful in studying
 XX gene function and for human therapeutics and plant engineering,
 PT comprises first, second and third zinc fingers, ordered from N- to
 PT C-terminus -
 XX Example 1; Page 61; 81pp; English.
 PS The present invention describes a zinc finger protein (I) that binds to
 XX a target site, comprising a first (F1), a second (F2), and a third (F3)
 CC zinc finger, ordered F1, F2, F3 from N-terminus to C-terminus, where the
 CC target site comprises, in 3'-5' direction, a first (S1), a second (S2),
 CC and a third (S3) target sub-site. Also described are: (I) a polypeptide
 CC (II) comprising (I); (2) a polynucleotide (III) encoding (I) or (II); and
 CC (3) designing (M) (I) involves selecting the F1 zinc finger such that
 CC it binds to the S1 target sub-site, selecting the F2 zinc finger such
 CC that it binds to the S2 target sub-site, and selecting the F3 zinc
 CC finger such that it binds to the S3 target sub-site, thus designing (I)
 CC that binds to a target site. (I) is useful for recognition of triplet
 CC target sub-sites having the nucleotide G in the 5'-most position of the
 CC sub-site. (I) is useful in studying gene function, and for human
 CC therapeutics and plant engineering. (I), (II) or (III) is useful in
 CC therapeutic methods to modulate the expression of a target region within
 CC a subject, in diagnostic methods for sequence specific detection of
 CC target nucleic acid in a sample, and in assays to determine the
 CC phenotype and function of gene expression. (I) has improved affinity
 CC and specificity for their target sequences, as well as enhanced
 CC biological activity. ABQ71213 to ABQ72214 and ABP48191 to ABP51230
 CC represent DNA target sequences and zinc finger peptides which are given
 CC in the exemplification of the present invention.
 XX Sequence 7 AA:
 SQ
 Query Match 100.0%; Score 36; DB 23; Length 7;
 Best Local Similarity 100.0%; Pred. No. 9.3e+05;
 Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
 QY 1 RSDHLSR 7
 Db 1 RSDHLSR 7
 RESULT 126
 ABP50840
 ID ABP50840 standard; Peptide; 7 AA.
 XX
 AC ABP50840;
 XX
 DT 28-AUG-2002 (first entry)
 XX
 DE Zinc finger protein related peptide motif SEQ ID NO:3892.
 XX
 KW Zinc finger protein; ZFP; DNA binding protein; zinc finger.
 XX
 OS Homo sapiens.
 OS Synthetic.
 XX
 PN WO200242459-A2.
 XX
 PD 30-MAY-2002.
 XX
 PF 20-NOV-2001; 2001WO-US43438.
 XX
 PR 20-NOV-2000; 2000US-0716637.
 XX
 PA (SANG-) SANGAMO BIOSCIENCES INC.
 XX
 PI Liu Q;
 XX
 DR WPI; 2002-500284/53.
 XX

PT New zinc finger protein that binds to target site, useful in studying
 PT gene function and for human therapeutics and plant engineering,
 PT comprises first, second and third zinc fingers, ordered from N- to
 PT C-terminus -
 XX Example 1; Page 61; 81pp; English.
 PS The present invention describes a zinc finger protein (I) that binds to
 CC a target site, comprising a first (F1), a second (F2), and a third (F3)
 CC zinc finger, ordered F1, F2, F3 from N-terminus to C-terminus, where the
 CC target site comprises, in 3'-5' direction, a first (S1), a second (S2),
 CC and a third (S3) target sub-site. Also described are: (I) a polypeptide
 CC (II) comprising (I); (2) a polynucleotide (III) encoding (I) or (II); and
 CC (3) designing (M) (I) involves selecting the F1 zinc finger such that
 CC it binds to the S1 target sub-site, selecting the F2 zinc finger such
 CC that it binds to the S2 target sub-site, and selecting the F3 zinc
 CC finger such that it binds to the S3 target sub-site, thus designing (I)
 CC that binds to a target site. (I) is useful for recognition of triplet
 CC target sub-sites having the nucleotide G in the 5'-most position of the
 CC sub-site. (I) is useful in studying gene function, and for human
 CC therapeutics and plant engineering. (I), (II) or (III) is useful in
 CC therapeutic methods to modulate the expression of a target region within
 CC a subject, in diagnostic methods for sequence specific detection of
 CC target nucleic acid in a sample, and in assays to determine the
 CC phenotype and function of gene expression. (I) has improved affinity
 CC and specificity for their target sequences, as well as enhanced
 CC biological activity. ABQ71213 to ABQ72214 and ABP48191 to ABP51230
 CC represent DNA target sequences and zinc finger peptides which are given
 CC in the exemplification of the present invention.
 XX Sequence 7 AA:
 SQ
 Query Match 100.0%; Score 36; DB 23; Length 7;
 Best Local Similarity 100.0%; Pred. No. 9.3e+05;
 Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
 QY 1 RSDHLSR 7
 Db 1 RSDHLSR 7
 RESULT 127
 ABP50952
 ID ABP50952 standard; Peptide; 7 AA.
 XX
 AC ABP50952;
 XX
 DT 28-AUG-2002 (first entry)
 XX
 DE Zinc finger protein related peptide motif SEQ ID NO:2930.
 XX
 KW Zinc finger protein; ZFP; DNA binding protein; zinc finger.
 XX
 OS Homo sapiens.
 OS Synthetic.
 XX
 PN WO200242459-A2.
 XX
 PD 30-MAY-2002.
 XX
 PF 20-NOV-2001; 2001WO-US43438.
 XX
 PR 20-NOV-2000; 2000US-0716637.
 XX
 PA (SANG-) SANGAMO BIOSCIENCES INC.
 XX
 PI Liu Q;
 XX
 DR WPI; 2002-500284/53.
 XX
 PT New zinc finger protein that binds to target site, useful in studying
 PT gene function and for human therapeutics and plant engineering,
 PT comprises first, second and third zinc fingers, ordered from N- to

PT C-terminus -
 XX
 PS Example 1; Page 62; 81pp; English.
 XX
 CC The present invention describes a zinc finger protein (I) that binds to
 CC a target site, comprising a first (F1), a second (F2), and a third (F3)
 CC zinc finger, ordered F1, F2, F3 from N-terminus to C-terminus, where the
 CC target site comprises, in 3',-5' direction, a first (S1), a second (S2),
 CC and a third (S3) target sub-site. Also described are: (1) a polypeptide
 CC (II) comprising (I); (2) a polynucleotide (III) encoding (I) or (II); and
 CC (3) designing (M) (I) involves selecting the F1 zinc finger such that
 CC it binds to the S1 target sub-site, selecting the F2 zinc finger such
 CC that it binds to the S2 target sub-site, and selecting the F3 zinc
 CC finger such that it binds to the S3 target sub-site, thus designing (I)
 CC that binds to a target site. (I) is useful for recognition of triplet
 CC target sub-sites having the nucleotide G in the 5'-most position of the
 CC sub-site. (I) is useful in studying gene function, and for human
 CC therapeutics and plant engineering. (I), (II) or (III) is useful in
 CC therapeutic methods to modulate the expression of a target region within
 CC a subject, in diagnostic methods for sequence specific detection of
 CC target nucleic acid in a sample, and in assays to determined the
 CC phenotype and function of gene expression. (I) has improved affinity
 CC and specificity for their target sequences, as well as enhanced
 CC biological activity. ABQ71213 to ABQ72214 and ABP48191 to ABP51230
 CC represent DNA target sequences and zinc finger peptides which are given
 CC in the exemplification of the present invention.
 XX
 SQ Sequence 7 AA;
 XX
 Query Match 100.0%; Score 36; DB 23; Length 7;
 Best Local Similarity 100.0%; Pred. No. 9.3e+05;
 Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
 QY 1 RSDHLSR 7
 DB 1 RSDHLSR 7
 RESULT 128
 ABP50970
 ID ABP50970 standard; Peptide; 7 AA.
 AC ABP50970;
 XX
 DT 28-AUG-2002 (first entry)
 XX
 DE Zinc finger protein related peptide motif SEQ ID NO:2936.
 XX
 KM Zinc finger protein; ZFP; DNA binding protein; zinc finger.
 XX
 OS Homo sapiens.
 OS Synthetic.
 XX
 PN WO200242459-A2.
 XX
 PD 30-MAY-2002.
 XX
 PF 20-NOV-2001; 2001WO-US43438.
 XX
 PR 20-NOV-2000; 2000US-0716637.
 XX
 PA (SANG-) SANGAMO BIOSCIENCES INC.
 XX
 PI Liu Q;
 XX
 DR WPI; 2002-500284/53.
 XX
 PT New zinc finger protein that binds to target site, useful in studying
 PT gene function and for human therapeutics and plant engineering,
 PT comprises first, second and third zinc fingers, ordered from N- to
 PT C-terminus -
 XX
 PS Example 1; Page 62; 81pp; English.

XX
 CC The present invention describes a zinc finger protein (I) that binds to
 CC a target site, comprising a first (F1), a second (F2), and a third (F3)
 CC zinc finger, ordered F1, F2, F3 from N-terminus to C-terminus, where the
 CC target site comprises, in 3',-5' direction, a first (S1), a second (S2),
 CC and a third (S3) target sub-site. Also described are: (1) a polypeptide
 CC (II) comprising (I); (2) a polynucleotide (III) encoding (I) or (II); and
 CC (3) designing (M) (I) involves selecting the F1 zinc finger such that
 CC it binds to the S1 target sub-site, selecting the F2 zinc finger such
 CC that it binds to the S2 target sub-site, and selecting the F3 zinc
 CC finger such that it binds to the S3 target sub-site, thus designing (I)
 CC that binds to a target site. (I) is useful for recognition of triplet
 CC target sub-sites having the nucleotide G in the 5'-most position of the
 CC sub-site. (I) is useful in studying gene function, and for human
 CC therapeutics and plant engineering. (I), (II) or (III) is useful in
 CC therapeutic methods to modulate the expression of a target region within
 CC a subject, in diagnostic methods for sequence specific detection of
 CC target nucleic acid in a sample, and in assays to determined the
 CC phenotype and function of gene expression. (I) has improved affinity
 CC and specificity for their target sequences, as well as enhanced
 CC biological activity. ABQ71213 to ABQ72214 and ABP48191 to ABP51230
 CC represent DNA target sequences and zinc finger peptides which are given
 CC in the exemplification of the present invention.
 XX
 SQ Sequence 7 AA;
 XX
 Query Match 100.0%; Score 36; DB 23; Length 7;
 Best Local Similarity 100.0%; Pred. No. 9.3e+05;
 Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
 QY 1 RSDHLSR 7
 DB 1 RSDHLSR 7
 RESULT 129
 ABP50973
 ID ABP50973 standard; Peptide; 7 AA.
 AC ABP50973;
 XX
 DT 28-AUG-2002 (first entry)
 XX
 DE Zinc finger protein related peptide motif SEQ ID NO:2937.
 XX
 KM Zinc finger protein; ZFP; DNA binding protein; zinc finger.
 XX
 OS Homo sapiens.
 OS Synthetic.
 XX
 PN WO200242459-A2.
 XX
 PD 30-MAY-2002.
 XX
 PF 20-NOV-2001; 2001WO-US43438.
 XX
 PR 20-NOV-2000; 2000US-0716637.
 XX
 PA (SANG-) SANGAMO BIOSCIENCES INC.
 XX
 PI Liu Q;
 XX
 DR WPI; 2002-500284/53.
 XX
 PT New zinc finger protein that binds to target site, useful in studying
 PT gene function and for human therapeutics and plant engineering,
 PT comprises first, second and third zinc fingers, ordered from N- to
 PT C-terminus -
 XX
 PS Example 1; Page 62; 81pp; English.
 CC The present invention describes a zinc finger protein (I) that binds to
 CC a target site, comprising a first (F1), a second (F2), and a third (F3)

CC zinc finger, ordered F1, F2, F3 from N-terminus to C-terminus, where the
CC target site comprises, in 3'-5' direction, a first (S1), a second (S2),
CC and a third (S3) target sub-site. Also described are: (1) a polypeptide
CC (II) comprising (1); (2) a polynucleotide (III) encoding (1) or (II); and
CC (3) designing (M) (1) involves selecting the F1 zinc finger such that
CC it binds to the S1 target sub-site, selecting the F2 zinc finger such
CC that it binds to the S2 target sub-site, and selecting the F3 zinc
CC finger such that it binds to the S3 target sub-site, thus designing (1)
CC that binds to a target site. (1) is useful for recognition of triplet
CC target sub-sites having the nucleotide G in the 5'-most position of the
CC sub-site. (1) is useful in studying gene function, and for human
CC therapeutics and plant engineering. (1), (II) or (III) is useful in
CC therapeutic methods to modulate the expression of a target region within
CC a subject, in diagnostic methods for sequence specific detection of
CC target nucleic acid in a sample, and in assays to determine the
CC phenotype and function of gene expression. (1) has improved affinity
CC and specificity for their target sequences, as well as enhanced
CC biological activity. ABQ71213 to ABQ72214 and ABP48191 to ABP51230
CC represent DNA target sequences and zinc finger peptides which are given
CC in the exemplification of the present invention.

XX Sequence 7 AA;

Query Match 100.0%; Score 36; DB 23; Length 7;
Best Local Similarity 100.0%; Pred. No. 9.3e+05;
Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 RSDHLSR 7
Db 1 RSDHLSR 7

RESULT 130

ID ABP50982 standard; Peptide; 7 AA.

XX ABP50982;

DT 28-AUG-2002 (first entry)

DE Zinc finger protein related peptide motif SEQ ID NO:2940.

KM Zinc finger protein; ZFP; DNA binding protein; zinc finger.

OS Homo sapiens.

OS Synthetic.

PN WO200242459-A2.

PD 30-MAY-2002.

XX 20-NOV-2001; 2001WO-US43438.

XX 20-NOV-2000; 2000US-0716637.

PA (SANG-) SANGAMO BIOSCIENCES INC.

PI Liu Q;

DR WPI; 2002-500284/53.

PT New zinc finger protein that binds to target site, useful in studying

PT gene function and for human therapeutics and plant engineering,

PT comprises first, second and third zinc fingers, ordered from N- to

PT C-terminus -

PS Example 1; Page 62; 81pp; English.

XX The present invention describes a zinc finger protein (1) that binds to
CC a target site, comprising a first (F1), a second (F2), and a third (F3)
CC zinc finger, ordered F1, F2, F3 from N-terminus to C-terminus, where the
CC target site comprises, in 3'-5' direction, a first (S1), a second (S2),
CC and a third (S3) target sub-site. Also described are: (1) a polypeptide
CC (II) comprising (1); (2) a polynucleotide (III) encoding (1) or (II); and
CC (3) designing (M) (1) involves selecting the F1 zinc finger such that
CC it binds to the S1 target sub-site, selecting the F2 zinc finger such

CC (II) comprising (1); (2) a polynucleotide (III) encoding (1) or (II); and
CC (3) designing (M) (1) involves selecting the F1 zinc finger such that
CC it binds to the S1 target sub-site, selecting the F2 zinc finger such
CC that it binds to the S2 target sub-site, and selecting the F3 zinc
CC finger such that it binds to the S3 target sub-site, thus designing (1)
CC that binds to a target site. (1) is useful for recognition of triplet
CC target sub-sites having the nucleotide G in the 5'-most position of the
CC sub-site. (1) is useful in studying gene function, and for human
CC therapeutics and plant engineering. (1), (II) or (III) is useful in
CC therapeutic methods to modulate the expression of a target region within
CC a subject, in diagnostic methods for sequence specific detection of
CC target nucleic acid in a sample, and in assays to determine the
CC phenotype and function of gene expression. (1) has improved affinity
CC and specificity for their target sequences, as well as enhanced
CC biological activity. ABQ71213 to ABQ72214 and ABP48191 to ABP51230
CC represent DNA target sequences and zinc finger peptides which are given
CC in the exemplification of the present invention.

XX Sequence 7 AA;

Query Match 100.0%; Score 36; DB 23; Length 7;
Best Local Similarity 100.0%; Pred. No. 9.3e+05;
Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 RSDHLSR 7
Db 1 RSDHLSR 7

RESULT 131

ID ABP50985 standard; Peptide; 7 AA.

XX ABP50985;

DT 28-AUG-2002 (first entry)

DE Zinc finger protein related peptide motif SEQ ID NO:2941.

KM Zinc finger protein; ZFP; DNA binding protein; zinc finger.

OS Homo sapiens.

OS Synthetic.

PN WO200242459-A2.

PD 30-MAY-2002.

XX 20-NOV-2001; 2001WO-US43438.

XX 20-NOV-2000; 2000US-0716637.

PA (SANG-) SANGAMO BIOSCIENCES INC.

PI Liu Q;

DR WPI; 2002-500284/53.

PT New zinc finger protein that binds to target site, useful in studying

PT gene function and for human therapeutics and plant engineering,

PT comprises first, second and third zinc fingers, ordered from N- to

PT C-terminus -

PS Example 1; Page 62; 81pp; English.

XX The present invention describes a zinc finger protein (1) that binds to
CC a target site, comprising a first (F1), a second (F2), and a third (F3)
CC zinc finger, ordered F1, F2, F3 from N-terminus to C-terminus, where the
CC target site comprises, in 3'-5' direction, a first (S1), a second (S2),
CC and a third (S3) target sub-site. Also described are: (1) a polypeptide
CC (II) comprising (1); (2) a polynucleotide (III) encoding (1) or (II); and
CC (3) designing (M) (1) involves selecting the F1 zinc finger such that
CC it binds to the S1 target sub-site, selecting the F2 zinc finger such

CC therapeutic methods to modulate the expression of a target region within
 CC a subject, in diagnostic methods for sequence specific detection of
 CC target nucleic acid in a sample, and in assays to determine the
 CC phenotype and function of gene expression. (I) has improved affinity
 CC and specificity for their target sequences, as well as enhanced
 CC biological activity. ABQ7213 to ABQ7224 and ABP48191 to ABP51230
 CC represent DNA target sequences and zinc finger peptides which are given
 CC in the exemplification of the present invention.

CC
 CC
 CC Sequence 7 AA;
 SQ

Query Match 100.0%; Score 36; DB 23; Length 7;
 Best Local Similarity 100.0%; Pred. No. 9.3e+05;
 Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 RSDHLSR 7
 DB 1 RSDHLSR 7

RESULT 134
 ABP51045
 ID ABP51045 standard; Peptide; 7 AA.
 XX
 AC ABP51045;
 XX
 DT 28-AUG-2002 (first entry)
 XX
 DE Zinc finger protein related peptide motif SEQ ID NO:2961.
 XX
 KM Zinc finger protein; ZFP, DNA binding protein; zinc finger.
 XX
 OS Homo sapiens.
 OS Synthetic.
 XX
 PN WO200242459-A2.
 XX
 PD 30-MAY-2002.
 XX
 PF 20-NOV-2001; 2001WO-US43438.
 XX
 PR 20-NOV-2000; 2000US-0716637.
 XX
 PA (SANG-) SANGAMO BIOSCIENCES INC.
 XX
 PI Liu Q;
 XX
 DR WPI; 2002-500284/53.
 XX
 PT New zinc finger protein that binds to target site, useful in studying
 PT gene function and for human therapeutics and plant engineering,
 PT comprises first, second and third zinc fingers, ordered from N- to
 PT C-terminus -
 XX
 PS Example 1; Page 62; 81pp; English.

CC The present invention describes a zinc finger protein (I) that binds to
 CC a target site, comprising a first (F1), a second (F2), and a third (F3)
 CC zinc finger, ordered F1, F2, F3 from N-terminus to C-terminus, where the
 CC target site comprises, in 3'-5' direction, a first (S1), a second (S2),
 CC and a third (S3) target sub-site. Also described are: (1) a polypeptide
 CC (II) comprising (I); (2) a polynucleotide (III) encoding (I) or (II); and
 CC (3) designing (M) (I) involves selecting the F1 zinc finger such that
 CC it binds to the S1 target sub-site, selecting the F2 zinc finger such
 CC that it binds to the S2 target sub-site, and selecting the F3 zinc
 CC finger such that it binds to the S3 target sub-site, thus designing (I)
 CC that binds to a target site. (I) is useful for recognition of triplet
 CC target sub-sites having the nucleotide G in the 5'-most position of the
 CC sub-site. (I) is useful in studying gene function, and for human
 CC therapeutic methods and plant engineering. (I), (II) or (III) is useful in
 CC therapeutic methods to modulate the expression of a target region within
 CC a subject, in diagnostic methods for sequence specific detection of
 CC target nucleic acid in a sample, and in assays to determine the

CC phenotype and function of gene expression. (I) has improved affinity
 CC and specificity for their target sequences, as well as enhanced
 CC biological activity. ABQ7213 to ABQ7224 and ABP48191 to ABP51230
 CC represent DNA target sequences and zinc finger peptides which are given
 CC in the exemplification of the present invention.

CC
 CC
 CC Sequence 7 AA;
 SQ

Query Match 100.0%; Score 36; DB 23; Length 7;
 Best Local Similarity 100.0%; Pred. No. 9.3e+05;
 Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 RSDHLSR 7
 DB 1 RSDHLSR 7

RESULT 135
 ABP51057
 ID ABP51057 standard; Peptide; 7 AA.
 XX
 AC ABP51057;
 XX
 DT 28-AUG-2002 (first entry)
 XX
 DE Zinc finger protein related peptide motif SEQ ID NO:2965.
 XX
 KM Zinc finger protein; ZFP, DNA binding protein; zinc finger.
 XX
 OS Homo sapiens.
 OS Synthetic.
 XX
 PN WO200242459-A2.
 XX
 PD 30-MAY-2002.
 XX
 PF 20-NOV-2001; 2001WO-US43438.
 XX
 PR 20-NOV-2000; 2000US-0716637.
 XX
 PA (SANG-) SANGAMO BIOSCIENCES INC.
 XX
 PI Liu Q;
 XX
 DR WPI; 2002-500284/53.
 XX
 PT New zinc finger protein that binds to target site, useful in studying
 PT gene function and for human therapeutics and plant engineering,
 PT comprises first, second and third zinc fingers, ordered from N- to
 PT C-terminus -
 XX
 PS Example 1; Page 63; 81pp; English.

CC The present invention describes a zinc finger protein (I) that binds to
 CC a target site, comprising a first (F1), a second (F2), and a third (F3)
 CC zinc finger, ordered F1, F2, F3 from N-terminus to C-terminus, where the
 CC target site comprises, in 3'-5' direction, a first (S1), a second (S2),
 CC and a third (S3) target sub-site. Also described are: (1) a polypeptide
 CC (II) comprising (I); (2) a polynucleotide (III) encoding (I) or (II); and
 CC (3) designing (M) (I) involves selecting the F1 zinc finger such that
 CC it binds to the S1 target sub-site, selecting the F2 zinc finger such
 CC that it binds to the S2 target sub-site, and selecting the F3 zinc
 CC finger such that it binds to the S3 target sub-site, thus designing (I)
 CC that binds to a target site. (I) is useful for recognition of triplet
 CC target sub-sites having the nucleotide G in the 5'-most position of the
 CC sub-site. (I) is useful in studying gene function, and for human
 CC therapeutic methods and plant engineering. (I), (II) or (III) is useful in
 CC therapeutic methods to modulate the expression of a target region within
 CC a subject, in diagnostic methods for sequence specific detection of
 CC target nucleic acid in a sample, and in assays to determine the
 CC phenotype and function of gene expression. (I) has improved affinity
 CC and specificity for their target sequences, as well as enhanced
 CC biological activity. ABQ7213 to ABQ7224 and ABP48191 to ABP51230

CC represent DNA target sequences and zinc finger peptides which are given
CC in the exemplification of the present invention.

XX Sequence 7 AA;

Query Match 100.0%; Score 36; DB 23; Length 7;
Best Local Similarity 100.0%; Pred. No. 9.3e+05;
Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 RSDHLR 7
1 RSDHLR 7
DB 1 RSDHLR 7

RESULT 136

ABP51117
ID ABP51117 standard; Peptide; 7 AA.

AC ABP51117;

DT 28-AUG-2002 (first entry)

DE Zinc finger protein related peptide motif SEQ ID NO:2985.

XM Zinc finger protein; ZFP; DNA binding protein; zinc finger.

OS Homo sapiens.

OS Synthetic.

PN WO200242459-A2.

PD 30-MAY-2002.

PF 20-NOV-2001; 2001WO-US43438.

PR 20-NOV-2000; 2000US-0716637.

PA (SANG-) SANGAMO BIOSCIENCES INC.

PI Liu Q;

DR WPI; 2002-500284/53.

XX New zinc finger protein that binds to target site, useful in studying
PT gene function and for human therapeutics and plant engineering,
PT comprises first, second and third zinc fingers, ordered from N- to
PT C-terminus

XX Example 1; Page 63; 81pp; English.

CC The present invention describes a zinc finger protein (I) that binds to
CC a target site, comprising a first (F1), a second (F2), and a third (F3)
CC zinc finger, ordered F1, F2, F3 from N-terminus to C-terminus, where the
CC target site comprises, in 3'-5' direction, a first (S1), a second (S2),
CC and a third (S3) target site. Also described are: (I) a polypeptide
CC comprising (I); (2) a polynucleotide (II) encoding (I) or (II); and
CC (II) comprising (I); (2) a polynucleotide (II) encoding (I) or (II); and
CC it binds to the S1 target site, selecting the F1 zinc finger such that
CC it binds to the S2 target site, and selecting the F2 zinc finger such
CC that it binds to the S3 target site, thus designing (I)
CC that binds to a target site. (I) is useful for recognition of triplet
CC target sites having the nucleotide G in the 5'-most position of the
CC substrate. (I) is useful in studying gene function, and for human
CC therapeutics and plant engineering. (I), (II) or (III) is useful in
CC therapeutic methods to modulate the expression of a target region within
CC a subject, in diagnostic methods for sequence specific detection of
CC target nucleic acid in a sample, and in assays to determine the
CC phenotype and function of gene expression. (I) has improved affinity
CC and specificity for their target sequences, as well as enhanced
CC biological activity. ABQ71213 to ABQ72214 and ABP48191 to ABP51230
CC represent DNA target sequences and zinc finger peptides which are given
CC in the exemplification of the present invention.

XX Sequence 7 AA;

Query Match 100.0%; Score 36; DB 23; Length 7;
Best Local Similarity 100.0%; Pred. No. 9.3e+05;
Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 RSDHLR 7
1 RSDHLR 7
DB 1 RSDHLR 7

RESULT 137

ABP51161
ID ABP51161 standard; Peptide; 7 AA.

AC ABP51161;

DT 28-AUG-2002 (first entry)

DE Zinc finger protein related peptide motif SEQ ID NO:3999.

XM Zinc finger protein; ZFP; DNA binding protein; zinc finger.

OS Homo sapiens.

OS Synthetic.

PN WO200242459-A2.

PD 30-MAY-2002.

PF 20-NOV-2001; 2001WO-US43438.

PR 20-NOV-2000; 2000US-0716637.

PA (SANG-) SANGAMO BIOSCIENCES INC.

PI Liu Q;

DR WPI; 2002-500284/53.

XX New zinc finger protein that binds to target site, useful in studying
PT gene function and for human therapeutics and plant engineering,
PT comprises first, second and third zinc fingers, ordered from N- to
PT C-terminus

XX Example 1; Page 63; 81pp; English.

CC The present invention describes a zinc finger protein (I) that binds to
CC a target site, comprising a first (F1), a second (F2), and a third (F3)
CC zinc finger, ordered F1, F2, F3 from N-terminus to C-terminus, where the
CC target site comprises, in 3'-5' direction, a first (S1), a second (S2),
CC and a third (S3) target site. Also described are: (I) a polypeptide
CC comprising (I); (2) a polynucleotide (II) encoding (I) or (II); and
CC (II) comprising (I); (2) a polynucleotide (II) encoding (I) or (II); and
CC it binds to the S1 target site, selecting the F1 zinc finger such that
CC it binds to the S2 target site, and selecting the F2 zinc finger such
CC that it binds to the S3 target site, thus designing (I)
CC that binds to a target site. (I) is useful for recognition of triplet
CC target sites having the nucleotide G in the 5'-most position of the
CC substrate. (I) is useful in studying gene function, and for human
CC therapeutics and plant engineering. (I), (II) or (III) is useful in
CC therapeutic methods to modulate the expression of a target region within
CC a subject, in diagnostic methods for sequence specific detection of
CC target nucleic acid in a sample, and in assays to determine the
CC phenotype and function of gene expression. (I) has improved affinity
CC and specificity for their target sequences, as well as enhanced
CC biological activity. ABQ71213 to ABQ72214 and ABP48191 to ABP51230
CC represent DNA target sequences and zinc finger peptides which are given
CC in the exemplification of the present invention.

XX Sequence 7 AA;

Query Match 100.0%; Score 36; DB 23; Length 7;

Best Local Similarity 100.0%; Pred. No. 9.3e+05;
Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 RSDHLSR 7
| | | | |
Db 1 RSDHLSR 7

RESULT 138

ABP51168
ID ABP51168 standard; Peptide; 7 AA.

AC ABP51168;

DT 28-AUG-2002 (first entry)

DE Zinc finger protein related peptide motif SEQ ID NO:3002.

KM Zinc finger protein; ZFP; DNA binding protein; zinc finger.

OS Homo sapiens.

OS Synthetic.

PN WO200242459-A2.

PD 30-MAY-2002.

PF 20-NOV-2001; 2001WO-US43438.

PR 20-NOV-2000; 2000US-0716637.

PA (SANG-) SANGAMO BIOSCIENCES INC.

PI Liu Q;

DR WPI; 2002-500284/53.

PT New zinc finger protein that binds to target site, useful in studying
PT gene function and for human therapeutics and plant engineering,
PT comprises first, second and third zinc fingers, ordered from N- to
PT C-terminus -

PS Example 1; Page 63; 81pp; English.

XX The present invention describes a zinc finger protein (I) that binds to
XX a target site, comprising a first (F1), a second (F2), and a third (F3)
XX zinc finger, ordered F1, F2, F3 from N-terminus to C-terminus, where the
XX target site comprises, in 3', 5' direction, a first (S1), a second (S2),
XX and a third (S3) target sub-site. Also described are: (I) a polypeptide
XX (II) comprising (I); (2) a polynucleotide (III) encoding (I) or (II); and
XX (3) designating (M) (I) involves selecting the F1 zinc finger such that
XX it binds to the S1 target sub-site, selecting the F2 zinc finger such
XX that it binds to the S2 target sub-site, and selecting the F3 zinc
XX finger such that it binds to the S3 target sub-site, thus designing (I)
XX that binds to a target site. (I) is useful for recognition of triplet
XX target sub-sites having the nucleotide G in the 5'-most position of the
XX sub-site. (I) is useful in studying gene function, and for human
XX therapeutics and plant engineering. (I), (II) or (III) is useful in
XX therapeutic methods to modulate the expression of a target region within
XX a subject, in diagnostic methods for sequence specific detection of
XX target nucleic acid in a sample, and in assays to determine the
XX phenotype and function of gene expression. (I) has improved affinity
XX and specificity for their target sequences, as well as enhanced
XX biological activity. ABQ71213 to ABQ72214 and ABP48191 to ABP51230
XX represent DNA target sequences and zinc finger peptides which are given
XX in the exemplification of the present invention.

SQ Sequence 7 AA;

Query Match 100.0%; Score 36; DB 23; Length 7;
Best Local Similarity 100.0%; Pred. No. 9.3e+05;
Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 RSDHLSR 7
| | | | |
Db 1 RSDHLSR 7

RESULT 139

ABP51182
ID ABP51182 standard; Peptide; 7 AA.

AC ABP51182;

DT 28-AUG-2002 (first entry)

DE Zinc finger protein related peptide motif SEQ ID NO:4006.

KM Zinc finger protein; ZFP; DNA binding protein; zinc finger.

OS Homo sapiens.

OS Synthetic.

PN WO200242459-A2.

PD 30-MAY-2002.

PF 20-NOV-2001; 2001WO-US43438.

PR 20-NOV-2000; 2000US-0716637.

PA (SANG-) SANGAMO BIOSCIENCES INC.

PI Liu Q;

DR WPI; 2002-500284/53.

PT New zinc finger protein that binds to target site, useful in studying
PT gene function and for human therapeutics and plant engineering,
PT comprises first, second and third zinc fingers, ordered from N- to
PT C-terminus -

PS Example 1; Page 63; 81pp; English.

XX The present invention describes a zinc finger protein (I) that binds to
XX a target site, comprising a first (F1), a second (F2), and a third (F3)
XX zinc finger, ordered F1, F2, F3 from N-terminus to C-terminus, where the
XX target site comprises, in 3', 5' direction, a first (S1), a second (S2),
XX and a third (S3) target sub-site. Also described are: (I) a polypeptide
XX (II) comprising (I); (2) a polynucleotide (III) encoding (I) or (II); and
XX (3) designating (M) (I) involves selecting the F1 zinc finger such that
XX it binds to the S1 target sub-site, selecting the F2 zinc finger such
XX that it binds to the S2 target sub-site, and selecting the F3 zinc
XX finger such that it binds to the S3 target sub-site, thus designing (I)
XX that binds to a target site. (I) is useful for recognition of triplet
XX target sub-sites having the nucleotide G in the 5'-most position of the
XX sub-site. (I) is useful in studying gene function, and for human
XX therapeutics and plant engineering. (I), (II) or (III) is useful in
XX therapeutic methods to modulate the expression of a target region within
XX a subject, in diagnostic methods for sequence specific detection of
XX target nucleic acid in a sample, and in assays to determine the
XX phenotype and function of gene expression. (I) has improved affinity
XX and specificity for their target sequences, as well as enhanced
XX biological activity. ABQ71213 to ABQ72214 and ABP48191 to ABP51230
XX represent DNA target sequences and zinc finger peptides which are given
XX in the exemplification of the present invention.

SQ Sequence 7 AA;

Query Match 100.0%; Score 36; DB 23; Length 7;
Best Local Similarity 100.0%; Pred. No. 9.3e+05;
Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 RSDHLSR 7
| | | | |
Db 1 RSDHLSR 7

RESULT 140
 AAB47804 standard; Peptide; 7 AA.
 ID AAB47804
 AC AAB47804;
 XX
 XX
 DT 25-MAR-2002 (first entry)
 XX
 XX
 DE VEGF-1 zinc finger domain F6.
 XX
 XX
 KW Target site; transcriptional effector protein; zinc finger domain;
 KW human; vascular endothelial growth factor; VEGF; cellular chromatin;
 KW gene expression; sequence-specific; DNA binding protein; phenotype;
 KW copy number; p53; cancer; gene function..
 XX
 OS Synthetic.
 XX
 XX WO200183751-A2.
 XX
 PD 08-NOV-2001.
 XX
 XX 27-APR-2001; 2001WO-US13631.
 PF
 XX 28-APR-2000; 2000US-200590P.
 PR
 XX (SANG-) SANGAMO BIOSCIENCES INC.
 PA
 PI Raschke E, Wolfe AP, Case CC;
 DR WPI; 2002-066534/09.
 XX
 XX Binding an exogenous molecule (EM) to a binding site located within a
 PT region of interest in chromatin, useful for modulating gene expression,
 PT by identifying an EM target site within an accessible region and
 PT introducing the EM into the cell -
 XX
 XX Example 8; Page 25; 50pp; English.
 XX
 CC The sequences given in AAB47802-16 represent zinc finger domains
 CC derived from transcriptional effector proteins. These transcriptional
 CC effector proteins were designed to bind to target sites derived from
 CC the transcriptional initiation site of the human vascular endothelial
 CC growth factor (VEGF) gene. Target site #1 was bound by a binding domain
 CC containing six zinc fingers, named VEGF3a/1. Target site #2 was bound
 CC by a three-finger zinc finger domain, VEGF-1, and a control six-finger
 CC domain, GATA 15.5, was designed to bind to target sequence #3. The zinc
 CC finger containing proteins were used to demonstrate the method of the
 CC invention for binding an exogenous molecule (EM) to a binding site (BS),
 CC where the BS is located within a region of interest in cellular
 CC chromatin. The method comprises identifying an accessible region
 CC within the region of interest, identifying a target site for the EM
 CC within the accessible region, and introducing the EM into the cell,
 CC where the EM binds to the BS. The method is useful for modulating gene
 CC expression by administering an exogenous molecule. The binding of an
 CC exogenous molecule to a binding site in cellular chromatin can be used
 CC for detection of a particular sequence, for example, an exogenous
 CC molecule, such as a sequence-specific DNA binding protein, can be used
 CC to detect variant alleles associated with a disease or with a particular
 CC phenotype in patient samples and to detect the presence of pathological
 CC microorganisms in clinical samples. Exogenous molecules can also be
 CC used to quantify copy number of a gene in a sample. For example,
 CC detection of the loss of one copy of a p53 gene in a clinical sample is
 CC an indicator of susceptibility to cancer.
 CC The methods can also be used in assays to determine gene function and
 CC to determine changes in phenotype resulting from specific modulation
 CC of gene expression.
 CC
 XX Sequence 7 AA;
 SQ
 Query Match 100.0%; Score 36; DB 23; Length 7;
 Best Local Similarity 100.0%; Pred. No. 9.3e+05;

Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
 QY 1 RSDHLR 7
 Db 1 RSDHLR 7
 RESULT 141
 AAB47810
 ID AAB47810 standard; Peptide; 7 AA.
 AC AAB47810;
 XX
 XX
 DT 25-MAR-2002 (first entry)
 XX
 XX
 DE VEGF3a/1 zinc finger domain F6.
 XX
 XX
 KW Target site; transcriptional effector protein; zinc finger domain;
 KW human; vascular endothelial growth factor; VEGF; cellular chromatin;
 KW gene expression; sequence-specific; DNA binding protein; phenotype;
 KW copy number; p53; cancer; gene function..
 XX
 OS Synthetic.
 XX
 XX WO200183751-A2.
 XX
 PD 08-NOV-2001.
 XX
 XX 27-APR-2001; 2001WO-US13631.
 PF
 XX 28-APR-2000; 2000US-200590P.
 PR
 XX (SANG-) SANGAMO BIOSCIENCES INC.
 PA
 PI Raschke E, Wolfe AP, Case CC;
 DR WPI; 2002-066534/09.
 XX
 XX Binding an exogenous molecule (EM) to a binding site located within a
 PT region of interest in chromatin, useful for modulating gene expression,
 PT by identifying an EM target site within an accessible region and
 PT introducing the EM into the cell -
 XX
 XX Example 8; Page 25; 50pp; English.
 XX
 CC The sequences given in AAB47802-16 represent zinc finger domains
 CC derived from transcriptional effector proteins. These transcriptional
 CC effector proteins were designed to bind to target sites derived from
 CC the transcriptional initiation site of the human vascular endothelial
 CC growth factor (VEGF) gene. Target site #1 was bound by a binding domain
 CC containing six zinc fingers, named VEGF3a/1. Target site #2 was bound
 CC by a three-finger zinc finger domain, VEGF-1, and a control six-finger
 CC domain, GATA 15.5, was designed to bind to target sequence #3. The zinc
 CC finger containing proteins were used to demonstrate the method of the
 CC invention for binding an exogenous molecule (EM) to a binding site (BS),
 CC where the BS is located within a region of interest in cellular
 CC chromatin. The method comprises identifying an accessible region
 CC within the region of interest, identifying a target site for the EM
 CC within the accessible region, and introducing the EM into the cell,
 CC where the EM binds to the BS. The method is useful for modulating gene
 CC expression by administering an exogenous molecule. The binding of an
 CC exogenous molecule to a binding site in cellular chromatin can be used
 CC for detection of a particular sequence, for example, an exogenous
 CC molecule, such as a sequence-specific DNA binding protein, can be used
 CC to detect variant alleles associated with a disease or with a particular
 CC phenotype in patient samples and to detect the presence of pathological
 CC microorganisms in clinical samples. Exogenous molecules can also be
 CC used to quantify copy number of a gene in a sample. For example,
 CC detection of the loss of one copy of a p53 gene in a clinical sample is
 CC an indicator of susceptibility to cancer.
 CC The methods can also be used in assays to determine gene function and
 CC to determine changes in phenotype resulting from specific modulation
 CC of gene expression.

XX Sequence 7 AA;
SQ Query Match 100.0%; Score 36; DB 23; Length 7;
Best Local Similarity 100.0%; Pred. No. 9.3e+05;
Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 RSDHLSR 7
DB 1 RSDHLSR 7

RESULT 142
AB07127
ID AB07127 standard; peptide; 7 AA.
XX
AC AB07127;
XX
DT 13-MAR-2002 (first entry)
XX
DE Human veg 1 protein zinc finger fragment F3.
XX
XX VEGF; chromatin; cytostatic; vasotropic; antidiabetic; ophthalmological;
XX antirheumatic; antiarthritic; antipsoriatic; anti-HIV; antisticking;
XX neuroprotective; nootropic; cerebroprotective; antibacterial; fungicide;
XX vincide; gene therapy; Veg 1; zinc finger.
XX
OS Homo sapiens.
XX
XX WO200183793-A2.
XX
XX 08-NOV-2001.
XX
XX 27-APR-2001; 2001WO-US40616.
XX
XX 28-APR-2000; 2000US-200590P.
XX 28-AUG-2000; 2000US-228523P.
XX
XX (SANG-) SANGAMO BIOSCIENCES INC.
XX
XX Wolfe AP, Collingwood T;
XX WPI; 2002-075165/10.
XX
XX Modification of chromatin structure for facilitating transcription,
XX replication and repair, comprises contacting chromatin with fusion
XX molecule comprising DNA binding domain and component of a chromatin
XX remodeling complex -
XX
XX Example 1; Page 59; 99pp; English.

The invention provides a method of modifying a region of interest in cellular chromatin that involves contacting the cellular chromatin with a fusion molecule that binds to a binding site in the region of interest, where the fusion molecule comprises a DNA binding domain and a component of a chromatin remodeling complex or its functional fragment, which modifies the region of interest. The method is useful for modifying a region of interest, in particular a gene encoding a product such as vascular endothelial growth factor, erythropoietin, androgen receptor, peroxisome proliferator-activated receptor (PPAR-gamma2), p16, p53, p21, p27, p29, p30, p31, p32, p33, p34, p35, p36, p37, p38, p39, p40, p41, p42, p43, p44, p45, p46, p47, p48, p49, p50, p51, p52, p53, p54, p55, p56, p57, p58, p59, p60, p61, p62, p63, p64, p65, p66, p67, p68, p69, p70, p71, p72, p73, p74, p75, p76, p77, p78, p79, p80, p81, p82, p83, p84, p85, p86, p87, p88, p89, p90, p91, p92, p93, p94, p95, p96, p97, p98, p99, p100, p101, p102, p103, p104, p105, p106, p107, p108, p109, p110, p111, p112, p113, p114, p115, p116, p117, p118, p119, p120, p121, p122, p123, p124, p125, p126, p127, p128, p129, p130, p131, p132, p133, p134, p135, p136, p137, p138, p139, p140, p141, p142, p143, p144, p145, p146, p147, p148, p149, p150, p151, p152, p153, p154, p155, p156, p157, p158, p159, p160, p161, p162, p163, p164, p165, p166, p167, p168, p169, p170, p171, p172, p173, p174, p175, p176, p177, p178, p179, p180, p181, p182, p183, p184, p185, p186, p187, p188, p189, p190, p191, p192, p193, p194, p195, p196, p197, p198, p199, p200, p201, p202, p203, p204, p205, p206, p207, p208, p209, p210, p211, p212, p213, p214, p215, p216, p217, p218, p219, p220, p221, p222, p223, p224, p225, p226, p227, p228, p229, p230, p231, p232, p233, p234, p235, p236, p237, p238, p239, p240, p241, p242, p243, p244, p245, p246, p247, p248, p249, p250, p251, p252, p253, p254, p255, p256, p257, p258, p259, p260, p261, p262, p263, p264, p265, p266, p267, p268, p269, p270, p271, p272, p273, p274, p275, p276, p277, p278, p279, p280, p281, p282, p283, p284, p285, p286, p287, p288, p289, p290, p291, p292, p293, p294, p295, p296, p297, p298, p299, p300, p301, p302, p303, p304, p305, p306, p307, p308, p309, p310, p311, p312, p313, p314, p315, p316, p317, p318, p319, p320, p321, p322, p323, p324, p325, p326, p327, p328, p329, p330, p331, p332, p333, p334, p335, p336, p337, p338, p339, p340, p341, p342, p343, p344, p345, p346, p347, p348, p349, p350, p351, p352, p353, p354, p355, p356, p357, p358, p359, p360, p361, p362, p363, p364, p365, p366, p367, p368, p369, p370, p371, p372, p373, p374, p375, p376, p377, p378, p379, p380, p381, p382, p383, p384, p385, p386, p387, p388, p389, p390, p391, p392, p393, p394, p395, p396, p397, p398, p399, p400, p401, p402, p403, p404, p405, p406, p407, p408, p409, p410, p411, p412, p413, p414, p415, p416, p417, p418, p419, p420, p421, p422, p423, p424, p425, p426, p427, p428, p429, p430, p431, p432, p433, p434, p435, p436, p437, p438, p439, p440, p441, p442, p443, p444, p445, p446, p447, p448, p449, p450, p451, p452, p453, p454, p455, p456, p457, p458, p459, p460, p461, p462, p463, p464, p465, p466, p467, p468, p469, p470, p471, p472, p473, p474, p475, p476, p477, p478, p479, p480, p481, p482, p483, p484, p485, p486, p487, p488, p489, p490, p491, p492, p493, p494, p495, p496, p497, p498, p499, p500, p501, p502, p503, p504, p505, p506, p507, p508, p509, p510, p511, p512, p513, p514, p515, p516, p517, p518, p519, p520, p521, p522, p523, p524, p525, p526, p527, p528, p529, p530, p531, p532, p533, p534, p535, p536, p537, p538, p539, p540, p541, p542, p543, p544, p545, p546, p547, p548, p549, p550, p551, p552, p553, p554, p555, p556, p557, p558, p559, p560, p561, p562, p563, p564, p565, p566, p567, p568, p569, p570, p571, p572, p573, p574, p575, p576, p577, p578, p579, p580, p581, p582, p583, p584, p585, p586, p587, p588, p589, p590, p591, p592, p593, p594, p595, p596, p597, p598, p599, p600, p601, p602, p603, p604, p605, p606, p607, p608, p609, p610, p611, p612, p613, p614, p615, p616, p617, p618, p619, p620, p621, p622, p623, p624, p625, p626, p627, p628, p629, p630, p631, p632, p633, p634, p635, p636, p637, p638, p639, p640, p641, p642, p643, p644, p645, p646, p647, p648, p649, p650, p651, p652, p653, p654, p655, p656, p657, p658, p659, p660, p661, p662, p663, p664, p665, p666, p667, p668, p669, p670, p671, p672, p673, p674, p675, p676, p677, p678, p679, p680, p681, p682, p683, p684, p685, p686, p687, p688, p689, p690, p691, p692, p693, p694, p695, p696, p697, p698, p699, p700, p701, p702, p703, p704, p705, p706, p707, p708, p709, p710, p711, p712, p713, p714, p715, p716, p717, p718, p719, p720, p721, p722, p723, p724, p725, p726, p727, p728, p729, p730, p731, p732, p733, p734, p735, p736, p737, p738, p739, p740, p741, p742, p743, p744, p745, p746, p747, p748, p749, p750, p751, p752, p753, p754, p755, p756, p757, p758, p759, p760, p761, p762, p763, p764, p765, p766, p767, p768, p769, p770, p771, p772, p773, p774, p775, p776, p777, p778, p779, p780, p781, p782, p783, p784, p785, p786, p787, p788, p789, p790, p791, p792, p793, p794, p795, p796, p797, p798, p799, p800, p801, p802, p803, p804, p805, p806, p807, p808, p809, p810, p811, p812, p813, p814, p815, p816, p817, p818, p819, p820, p821, p822, p823, p824, p825, p826, p827, p828, 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CC unique 15 base pair sequence.
 XX
 SQ Sequence 7 AA;
 Query Match 100.0%; Score 36; DB 24; Length 7;
 Best Local Similarity 100.0%; Pred. No. 9.3e+05;
 Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
 1 RSDHLSR 7
 1 RSDHLSR 7
 Db 1 RSDHLSR 7
 RESULT 144
 ABG75746
 ID ABG75746 standard; peptide; 7 AA.
 AC ABG75746;
 XX
 AC
 XX 25-APR-2003 (first entry)
 DT
 XX
 DE Three zinc finger protein library, finger 3.
 XX
 KM Zinc finger protein; zinc finger protein-regulated gene; cancer;
 KM nephritis; prostate hypertrophy; haematopoiesis; osteoporosis; obesity;
 KM cardiovascular disease; diabetes.
 XX
 OS Synthetic.
 XX
 PN US2002146691-A1.
 XX
 PD 10-OCT-2002.
 XX
 PF 06-DEC-2000; 2000US-0731558.
 XX
 PR 06-DEC-1999; 99US-0456100.
 XX
 PA (CASE/) CASE C. C.
 PA (LITU/) LIT Q.
 PA (REBA/) REBA B. J.
 PA (WOLF/) WOLF A. P.
 XX
 PI Case CC, Liu Q, Rebar EJ, Wolffe AP;
 XX
 DR WPI; 2003-247121/24.
 PT Identification of gene(s) associated with selected phenotype comprises
 PT using libraries of randomized zinc finger proteins -
 XX
 PS Example 2; Page 16; 26pp; English.
 XX
 CC The invention relates to identification of gene(s) associated with a
 CC selected phenotype comprising providing a nucleic acid library of
 CC nucleotide sequences that encode at least partially randomised zinc
 CC finger proteins, transducing cells with expression vectors, culturing and
 CC assaying the cells for a selected phenotype, and identifying the
 CC gene(s) whose expression is modulated by expression of a zinc finger
 CC protein. The method is used for the identification of gene(s) associated
 CC with a selected phenotype which is related to cancer, nephritis,
 CC prostate hypertrophy, haematopoiesis, osteoporosis, obesity,
 CC cardiovascular disease, or diabetes. It is useful in academic
 CC laboratories, pharmaceutical companies, genomics companies,
 CC agricultural companies, chemical companies, and in the biotechnology
 CC industry. The present sequence is a Three Zinc finger protein library,
 CC finger 3.
 XX
 SQ Sequence 7 AA;
 Query Match 100.0%; Score 36; DB 24; Length 7;
 Best Local Similarity 100.0%; Pred. No. 9.3e+05; Indels 0; Gaps 0;
 Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
 1 RSDHLSR 7

Db 1 RSDHLSR 7
 RESULT 145
 AAB07699
 ID AAB07699 standard; peptide; 7 AA.
 AC AAB07699;
 XX
 AC
 XX 24-FEB-2003 (first entry)
 DT
 XX
 DE VEGF specific zinc finger protein DNA binding domain #3.
 XX
 KM DNA binding specificity; zinc finger protein; specificity optimisation;
 KM ZFP; gene expression; VEGF; DNA binding domain.
 XX
 OS Unidentified.
 XX
 PN W0200277227-A2.
 XX
 PD 03-OCT-2002.
 XX
 PF 20-NOV-2001; 2001WO-US43568.
 XX
 PR 20-NOV-2000; 2000US-0716637.
 XX
 PA (SANG-) SANGAMO BIOSCIENCES INC.
 XX
 PI Eisenberg SP, Liu Q, Jamieson A, Rebar E;
 XX
 DR WPI; 2003-029936/02.
 XX
 PT Enhancing the binding specificity of a zinc finger protein, comprises
 PT substituting amino acids in the protein for residues in the target
 PT sequence to make a modified binding protein -
 XX
 PS Example 5; Page 46; 55pp; English.
 XX
 CC The present invention relates to a novel method of enhancing the binding
 CC specificity of a binding protein (zinc finger protein (ZFP)). The method
 CC involves substituting one or more amino acids at positions in the binding
 CC protein that affect the specificity of the binding protein for residues
 CC in the target sequence to make a modified binding protein. The method is
 CC useful in optimising the specificity of a binding protein, in modulating
 CC the expression of a target gene in a subject and in diagnostic methods
 CC for sequence-specific detection of a target nucleic acid in a sample.
 CC The present sequence is VEGF specific zinc finger protein DNA binding
 CC domain. This sequence is used in the exemplification of the invention.
 XX
 SQ Sequence 7 AA;
 Query Match 100.0%; Score 36; DB 24; Length 7;
 Best Local Similarity 100.0%; Pred. No. 9.3e+05; Indels 0; Gaps 0;
 Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
 1 RSDHLSR 7
 1 RSDHLSR 7
 Db 1 RSDHLSR 7
 RESULT 146
 AAB07699
 ID AAB07699 standard; Protein; 99 AA.
 AC AAB07699;
 XX
 AC
 XX 07-NOV-2000 (first entry)
 DT
 XX
 DE Zinc finger protein VEGF1 which inhibits VEGF gene.
 XX
 KM Zinc finger protein; ZFP; cancer; ischemia; diabetic retinopathy;
 KM macular degeneration; rheumatoid arthritis; psoriasis; viral infection;

KM sickle cell anaemia; Alzheimer's disease; cystic fibrosis;
 KM neurodegenerative disease; stroke; disease resistance;
 KM flavour modification; fruit ripening; oil production; crop plant;
 KM vascular endothelial growth factor; VEGF.
 XX
 OS Synthetic.
 XX
 PN WO200041566-A1.
 XX
 PD 20-JUL-2000.
 XX
 PF 06-JAN-2000; 2000WO-US00409.
 XX
 PR 12-JAN-1999; 99US-0229037.
 XX
 PA (SANA-) SANAGAMO BIOSCIENCES INC.
 XX
 PI Cox GN, Case CC, Eisenberg SP, Jarvis EE, Spratt SK;
 XX
 DR WPI; 2000-475918/41.
 DR N-PSDB; AAB07699.
 XX
 PT Method of modulating expression of an endogenous cellular gene in a
 PT cell to prevent gene activation or prevent repression of gene
 PT expression comprising contacting a target sequence with a zinc finger
 PT protein -
 XX
 PS Example 1; Page 60; 101pp; English.
 XX
 CC The specification describes a method for modulating expression of an
 CC endogenous cellular gene in a cell. The method comprises contacting a
 CC target site in the endogenous cellular gene with a zinc finger protein
 CC (ZFP). The method is used to inhibit expression of a gene, to activate
 CC expression of a developmentally silent or inactive endogenous cellular
 CC gene e.g. BPO, GATA, hemoglobin gamma, hemoglobin delta, an interleukin,
 CC granulocyte macrophage colony stimulating factor (GM-CSF), eutrophin or
 CC MyoD. Modulation of gene expression can be used for treating cancer,
 CC ischemia, diabetic retinopathy, macular degeneration, rheumatoid
 CC arthritis, psoriasis, viral infection, sickle cell anaemia, Alzheimer's
 CC disease, cystic fibrosis, neurodegenerative diseases and stroke.
 CC ZFPs can be used to engineer plants which have increased disease
 CC resistance, modification of flavours, fruit ripening, yield, colour, and
 CC for enhanced oil production in crop plants. The ZFPs can also be used
 CC in assays to determine the phenotypic consequences and function of gene
 CC expression. The present sequence represents a ZFP, which inhibits human
 CC vascular endothelial growth factor (VEGF) gene.
 CC
 SQ Sequence 99 AA;
 QY
 Db 1 RSDHLSR 7
 81 RSDHLSR 87
 Query Match 100.0%; Score 36; DB 21; Length 99;
 Best Local Similarity 100.0%; Pred. No. 4.6;
 Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
 RESULT 147
 AAE08712
 ID AAE08712 standard; Protein; 99 AA.
 XX
 AC AAE08712;
 XX
 DT 15-NOV-2001 (first entry)
 XX
 DE Human ZFP-vascular endothelial growth factor 1 (VEGF1) protein.
 XX
 KM Human; vascular endothelial growth factor; VEGF1; molecular target;
 KM zinc finger protein; ZFP; cellular process; signal transduction;
 KM drug-screening.
 XX
 OS Homo sapiens.
 OS

XX
 XX WO200159450-A2.
 XX
 XX 16-AUG-2001.
 PD
 XX
 PF 08-FEB-2001; 2001WO-US04301.
 XX
 FR 08-FEB-2000; 2000US-0181117.
 XX
 PA (SANG-) SANGAMO BIOSCIENCES INC.
 XX
 PI Case C;
 XX
 DR WPI; 2001-522491/57.
 DR N-PSDB; AAD15335.
 XX
 PT Screening compound for interaction with molecular target by contacting
 PT compound with cells, comprising exogenous zinc finger protein that
 PT modulates expression of target, and determining values of properties of
 PT cells -
 XX
 PS Example 1; Page 53; 99pp; English.
 XX
 CC The invention relates to a method of screening a compound for interaction
 CC with a molecular target. The method involves contacting first and
 CC second cells with the compound and determining the values of properties
 CC of the compound. The second cell comprises an exogenous zinc finger
 CC protein (ZFP) that modulates the expression of the molecular target, or
 CC isolating membranes from cell comprising ZFP. The methods allow for high
 CC throughput screening of candidate compound and reduces the incidence of
 CC false positives. The methods are useful for screening a compound for its
 CC interaction with a molecular target or for screening a compound for its
 CC effect on a cellular process. The method is useful for testing a compound
 CC for its capacity to transduce a signal to the molecular target or its
 CC capacity to block transduction of a signal through the molecular target,
 CC and for performing biochemical drug-screening assays. The present
 CC sequence is human vascular endothelial growth factor 1 (VEGF1)-ZFP
 CC protein. VEGF is a 46 kDa glycoprotein that is an endothelial
 CC cell-specific mitogen induced by hypoxia. VEGF has been implicated in
 CC angiogenesis associated with cancer, various retinopathies and other
 CC serious diseases.
 CC
 SQ Sequence 99 AA;
 QY
 Db 1 RSDHLSR 7
 81 RSDHLSR 87
 Query Match 100.0%; Score 36; DB 22; Length 99;
 Best Local Similarity 100.0%; Pred. No. 4.6;
 Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
 RESULT 148
 AAE21124
 ID AAE21124 standard; peptide; 99 AA.
 XX
 AC AAE21124;
 XX
 DT 01-JUL-2002 (first entry)
 XX
 DE 3 finger protein used to modulate gene expression.
 XX
 KM DNA binding protein; zinc finger domain; zinc finger protein; ZFP;
 KM viral replication; gene expression; virucide; 3 finger protein.
 XX
 OS Unidentified.
 OS
 PN WO200208286-A2.
 XX
 PD 31-JAN-2002.
 XX
 PF 19-JUL-2001; 2001WO-EP08367.
 PF

XX 21-JUL-2000; 2000US-220060P.
 PR (SYGN) SYNGENTA PARTICIPATIONS AG.
 PA Sera T;
 PI WPI; 2002-172000/22.
 XX New Zinc Finger Protein (ZFP) comprising three essential domains useful
 FT for diagnosing diseases associated with abnormal genomic structure -
 XX
 XX Claim 1; Page 28; 143pp; English.
 CC The present invention relates to novel DNA binding proteins comprising
 CC zinc finger domains in which two histidine and two cysteine residues
 CC coordinate a central zinc ion. The invention particularly relates to
 CC the identification of a context-independent recognition code to design
 CC zinc finger domains. The invention also relates to zinc finger proteins
 CC (ZFP) designed using this recognition code. The ZFPs are useful for
 CC altering genomic structure, inhibiting viral replication (where viral
 CC replication is inhibited for plant virus, an animal virus or a human
 CC virus), modulating gene expression, detecting an altered zinc finger
 CC recognition sequence and diagnosing disease associated with abnormal
 CC genomic structure. The present sequence is a 3 finger protein used
 CC to modulate gene expression.
 CC
 SQ Sequence 99 AA;
 Query Match 100.0%; Score 36; DB 23; Length 99;
 Best Local Similarity 100.0%; Pred. No. 4.6;
 Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
 Qy 1 RSDHLR 7
 Db 81 RSDHLR 87
 RESULT 149
 AAE21125
 ID AAE21125 standard; peptide; 99 AA.
 XX
 AC AAE21125;
 XX
 DT 01-JUL-2002 (first entry)
 DE Zinc finger protein containing reduced DNA binding domains #1.
 XX
 DE DNA binding protein; zinc finger domain; zinc finger protein; ZFP;
 KW viral replication; gene expression; virucide; DNA binding domain.
 XX
 OS Unidentified.
 XX
 PN WO200208286-A2.
 XX
 PD 31-JAN-2002.
 XX
 PF 19-JUL-2001; 2001WO-EP08367.
 XX
 PR 21-JUL-2000; 2000US-220060P.
 PA (SYGN) SYNGENTA PARTICIPATIONS AG.
 PI Sera T;
 XX
 DR WPI; 2002-172000/22.
 XX
 PT New Zinc Finger Protein (ZFP) comprising three essential domains useful
 FT for diagnosing diseases associated with abnormal genomic structure -
 XX
 XX Claim 1; Page 28; 143pp; English.
 CC The present invention relates to novel DNA binding proteins comprising

CC zinc finger domains in which two histidine and two cysteine residues
 CC coordinate a central zinc ion. The invention particularly relates to
 CC the identification of a context-independent recognition code to design
 CC zinc finger domains. The invention also relates to zinc finger proteins
 CC (ZFP) designed using this recognition code. The ZFPs are useful for
 CC altering genomic structure, inhibiting viral replication (where viral
 CC replication is inhibited for plant virus, an animal virus or a human
 CC virus), modulating gene expression, detecting an altered zinc finger
 CC recognition sequence and diagnosing disease associated with abnormal
 CC genomic structure. The present sequence is a zinc finger protein
 CC containing reduced DNA binding domains.
 CC
 SQ Sequence 99 AA;
 Query Match 100.0%; Score 36; DB 23; Length 99;
 Best Local Similarity 100.0%; Pred. No. 4.6;
 Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
 Qy 1 RSDHLR 7
 Db 84 RSDHLR 90
 RESULT 150
 AAE21126
 ID AAE21126 standard; peptide; 99 AA.
 XX
 AC AAE21126;
 XX
 DT 01-JUL-2002 (first entry)
 DE Zinc finger protein containing reduced DNA binding domains #2.
 XX
 DE DNA binding protein; zinc finger domain; zinc finger protein; ZFP;
 KW viral replication; gene expression; virucide; DNA binding domain.
 XX
 OS Unidentified.
 XX
 PN WO200208286-A2.
 XX
 PD 31-JAN-2002.
 XX
 PF 19-JUL-2001; 2001WO-EP08367.
 XX
 PR 21-JUL-2000; 2000US-220060P.
 PA (SYGN) SYNGENTA PARTICIPATIONS AG.
 PI Sera T;
 XX
 DR WPI; 2002-172000/22.
 XX
 PT New Zinc Finger Protein (ZFP) comprising three essential domains useful
 FT for diagnosing diseases associated with abnormal genomic structure -
 XX
 XX Claim 1; Page 28-29; 143pp; English.
 CC The present invention relates to novel DNA binding proteins comprising
 CC zinc finger domains in which two histidine and two cysteine residues
 CC coordinate a central zinc ion. The invention particularly relates to
 CC the identification of a context-independent recognition code to design
 CC zinc finger domains. The invention also relates to zinc finger proteins
 CC (ZFP) designed using this recognition code. The ZFPs are useful for
 CC altering genomic structure, inhibiting viral replication (where viral
 CC replication is inhibited for plant virus, an animal virus or a human
 CC virus), modulating gene expression, detecting an altered zinc finger
 CC recognition sequence and diagnosing disease associated with abnormal
 CC genomic structure. The present sequence is a zinc finger protein
 CC containing reduced DNA binding domains.
 CC
 SQ Sequence 99 AA;
 Query Match 100.0%; Score 36; DB 23; Length 99;

Best Local Similarity 100.0%; Pred. No. 4.6;
Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

OY 1 RSDHLSR 7
|||
Db 84 RSDHLSR 90

RESULT 151
AAE21127

ID AAE21127 standard; peptide; 99 AA.

XX AAE21127;

DT 01-JUL-2002 (first entry)

XX Zinc finger protein containing reduced DNA binding domains #3.

XX DNA binding protein; zinc finger domain; zinc finger protein; ZFP;

XX viral replication; gene expression; virucide; DNA binding domain.

XX Unidentified.

XX WO200208286-A2.

XX 31-JAN-2002.

XX 19-JUL-2001; 2001WO-EP08367.

XX 21-JUL-2000; 2000US-220060P.

XX (SYGN) SYNGENTA PARTICIPATIONS AG.

XX Sera T;

XX WPI; 2002-172000/22.

XX New Zinc Finger Protein (ZFP) comprising three essential domains useful
for diagnosing diseases associated with abnormal genomic structure -

XX Claim 1; Page 29; 143pp; English.

XX The present invention relates to novel DNA binding proteins comprising

XX zinc finger domains in which two histidine and two cysteine residues

XX coordinate a central zinc ion. The invention particularly relates to

XX the identification of a context-independent recognition code to design

XX zinc finger domains. The invention also relates to zinc finger proteins

XX (ZFP) designed using this recognition code. The ZFPs are useful for

XX altering genomic structure, inhibiting viral replication (where viral

XX replication is inhibited for plant virus, an animal virus or a human

XX virus), modulating gene expression, detecting an altered zinc finger

XX recognition sequence and diagnosing disease associated with abnormal

XX genomic structure. The present sequence is a zinc finger protein

XX containing reduced DNA binding domains.

XX Sequence 99 AA;

XX Query Match 100.0%; Score 36; DB 23; Length 99;

XX Best Local Similarity 100.0%; Pred. No. 4.6; Indels 0; Gaps 0;

XX Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

XX Db 1 RSDHLSR 7
|||
84 RSDHLSR 90

RESULT 152

ID AAE21128 standard; peptide; 99 AA.

XX AAE21128;

DT 01-JUL-2002 (first entry)

XX Zinc finger protein containing reduced DNA binding domains #4.

XX DNA binding protein; zinc finger domain; zinc finger protein; ZFP;

XX viral replication; gene expression; virucide; DNA binding domain.

XX Unidentified.

XX WO200208286-A2.

XX 31-JAN-2002.

XX 19-JUL-2001; 2001WO-EP08367.

XX 21-JUL-2000; 2000US-220060P.

XX (SYGN) SYNGENTA PARTICIPATIONS AG.

XX Sera T;

XX WPI; 2002-172000/22.

XX New Zinc Finger Protein (ZFP) comprising three essential domains useful
for diagnosing diseases associated with abnormal genomic structure -

XX Claim 1; Page 29; 143pp; English.

XX The present invention relates to novel DNA binding proteins comprising

XX zinc finger domains in which two histidine and two cysteine residues

XX coordinate a central zinc ion. The invention particularly relates to

XX the identification of a context-independent recognition code to design

XX zinc finger domains. The invention also relates to zinc finger proteins

XX (ZFP) designed using this recognition code. The ZFPs are useful for

XX altering genomic structure, inhibiting viral replication (where viral

XX replication is inhibited for plant virus, an animal virus or a human

XX virus), modulating gene expression, detecting an altered zinc finger

XX recognition sequence and diagnosing disease associated with abnormal

XX genomic structure. The present sequence is a zinc finger protein

XX containing reduced DNA binding domains.

XX Sequence 99 AA;

XX Query Match 100.0%; Score 36; DB 23; Length 99;

XX Best Local Similarity 100.0%; Pred. No. 4.6; Indels 0; Gaps 0;

XX Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

XX Db 1 RSDHLSR 7
|||
84 RSDHLSR 90

XX RESULT 153

ID AAE21129 standard; peptide; 99 AA.

XX AAE21129;

DT 01-JUL-2002 (first entry)

XX Zinc finger protein containing reduced DNA binding domains #5.

XX DNA binding protein; zinc finger domain; zinc finger protein; ZFP;

XX viral replication; gene expression; virucide; DNA binding domain.

XX Unidentified.

XX WO200208286-A2.

XX 31-JAN-2002.

XX 19-JUL-2001; 2001WO-EP08367.

XX 21-JUL-2000; 2000US-220060P.

XX (SYGN) SYNGENTA PARTICIPATIONS AG.
 XX Sera T;
 XX WPI; 2002-172000/22.
 XX
 PT New Zinc Finger Protein (ZFP) comprising three essential domains useful
 PT for diagnosing diseases associated with abnormal genomic structure -
 XX
 PS Claim 1; Page 29; 143pp; English.
 CC The present invention relates to novel DNA binding proteins comprising
 CC zinc finger domains in which two histidine and two cysteine residues
 CC coordinate a central zinc ion. The invention particularly relates to
 CC the identification of a context-independent recognition code to design
 CC zinc finger domains. The invention also relates to zinc finger proteins
 CC (ZFP) designed using this recognition code. The ZFPs are useful for
 CC altering genomic structure, inhibiting viral replication (where viral
 CC replication is inhibited for plant virus, an animal virus or a human
 CC virus), modulating gene expression, detecting an altered zinc finger
 CC recognition sequence and diagnosing disease associated with abnormal
 CC genomic structure. The present sequence is a zinc finger protein
 CC containing reduced DNA binding domains.
 CC
 SQ Sequence 99 AA;
 Query Match 100.0%; Score 36; DB 23; Length 99;
 Best Local Similarity 100.0%; Pred. No. 4.6;
 Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
 QY 1 RSDHLR 7
 Db 84 RSDHLR 90
 RESULT 154
 AAE21130
 ID AAE21130 standard; peptide; 99 AA.
 AC AAE21130;
 XX
 DT 01-JUL-2002 (first entry)
 XX
 DE Zinc finger protein containing reduced DNA binding domains #6.
 XX
 KW DNA binding protein; zinc finger domain; zinc finger protein; ZFP;
 KW viral replication; gene expression; virucide; DNA binding domain.
 XX
 OS Unidentified.
 XX
 PN WO200208286-A2.
 XX
 PD 31-JAN-2002.
 XX
 PF 19-JUL-2001; 2001WO-EP08367.
 XX
 PR 21-JUL-2000; 2000US-220060P.
 XX
 PA (SYGN) SYNGENTA PARTICIPATIONS AG.
 XX
 PS Sera T;
 XX
 DR WPI; 2002-172000/22.
 XX
 PT New Zinc Finger Protein (ZFP) comprising three essential domains useful
 PT for diagnosing diseases associated with abnormal genomic structure -
 XX
 PS Claim 1; Page 29; 143pp; English.
 CC The present invention relates to novel DNA binding proteins comprising
 CC zinc finger domains in which two histidine and two cysteine residues
 CC coordinate a central zinc ion. The invention particularly relates to

CC the identification of a context-independent recognition code to design
 CC zinc finger domains. The invention also relates to zinc finger proteins
 CC (ZFP) designed using this recognition code. The ZFPs are useful for
 CC altering genomic structure, inhibiting viral replication (where viral
 CC replication is inhibited for plant virus, an animal virus or a human
 CC virus), modulating gene expression, detecting an altered zinc finger
 CC recognition sequence and diagnosing disease associated with abnormal
 CC genomic structure. The present sequence is a zinc finger protein
 CC containing reduced DNA binding domains.
 CC
 SQ Sequence 99 AA;
 Query Match 100.0%; Score 36; DB 23; Length 99;
 Best Local Similarity 100.0%; Pred. No. 4.6;
 Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
 QY 1 RSDHLR 7
 Db 84 RSDHLR 90
 RESULT 155
 ABB07131
 ID ABB07131 standard; protein; 99 AA.
 AC ABB07131;
 XX
 DT 13-MAR-2002 (first entry)
 XX
 DE Human Veg 1 domain amino acid sequence.
 XX
 KW VEGF; chromatin; cytoskeletal; vasotropic; antidiabetic; ophthalmological;
 KW antithematic; antirheumatic; antipsychotic; anti-HIV; antisickling;
 KW neuroprotective; nocrotropic; cerebroprotective; antibacterial; fungicide;
 KW virucide; gene therapy; Veg 1; zinc finger.
 XX
 OS Homo sapiens.
 XX
 PN WO200183793-A2.
 XX
 PD 08-NOV-2001.
 XX
 PF 27-APR-2001; 2001WO-US40616.
 XX
 PR 28-APR-2000; 2000US-200590P.
 PR 28-AUG-2000; 2000US-228523P.
 XX
 PA (SANG-) SANGAMO BIOSCIENCES INC.
 XX
 PS Wolfe AP, Collingwood T;
 XX
 DR WPI; 2002-075165/10.
 DR N-PADB; AAI67953.
 XX
 PT Modification of chromatin structure for facilitating transcription,
 PT replication and repair, comprises contacting chromatin with fusion
 PT molecule comprising DNA binding domain and component of a chromatin
 PT remodeling complex -
 XX
 PS Example 1; Page 60; 99pp; English.
 CC The invention provides a method of modifying a region of interest in
 CC cellular chromatin that involves contacting the cellular chromatin with a
 CC fusion molecule that binds to a binding site in the region of interest,
 CC where the fusion molecule comprises a DNA binding domain and a component
 CC of a chromatin remodeling complex or its functional fragment, which
 CC modifies the region of interest. The method is useful for modifying a
 CC region of interest, in particular a gene encoding a product such as
 CC vascular endothelial growth factor, erythropoietin, androgen receptor,
 CC peroxisome proliferator-activated receptor (PPAR-gamma2), p16, p53, pRb,
 CC dystrophin and e-cadherin in cellular chromatin present in a plant,
 CC animal or human cell. The chromatin modification facilitates detection
 CC of sequence of interest comprising a single nucleotide polymorphism,

```
RESULT 5
US-09-989-789-238
; Sequence 238, Application US/09989789
; Patent No. US20020063379A1
; GENERAL INFORMATION:
; APPLICANT: LIU, Qiang
; TITLE OF INVENTION: POSITION DEPENDENT RECOGNITION OF GNN NUCLEOTIDE
; FILE REFERENCE: 8325-0011.20 / S11-US2
; CURRENT APPLICATION NUMBER: US/09/989,789
; CURRENT FILING DATE: 2002-03-25
; NUMBER OF SEQ ID NOS: 4085
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 238
; LENGTH: 7
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: example ZFP
US-09-989-789-238

Query Match
Best Local Similarity 100.0%; Score 36; DB 9; Length 7;
Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 RSDHLR 7
DB 1 RSDHLR 7

RESULT 6
US-09-989-789-239
; Sequence 239, Application US/09989789
; Patent No. US20020063379A1
; GENERAL INFORMATION:
; APPLICANT: LIU, Qiang
; TITLE OF INVENTION: POSITION DEPENDENT RECOGNITION OF GNN NUCLEOTIDE
; FILE REFERENCE: 8325-0011.20 / S11-US2
; CURRENT APPLICATION NUMBER: US/09/989,789
; CURRENT FILING DATE: 2002-03-25
; NUMBER OF SEQ ID NOS: 4085
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 239
; LENGTH: 7
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: example ZFP
US-09-989-789-239

Query Match
Best Local Similarity 100.0%; Score 36; DB 9; Length 7;
Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 RSDHLR 7
DB 1 RSDHLR 7

RESULT 7
US-09-989-789-244
; Sequence 244, Application US/09989789
; Patent No. US20020063379A1
; GENERAL INFORMATION:
; APPLICANT: LIU, Qiang
; TITLE OF INVENTION: POSITION DEPENDENT RECOGNITION OF GNN NUCLEOTIDE
; FILE REFERENCE: 8325-0011.20 / S11-US2
; CURRENT APPLICATION NUMBER: US/09/989,789
; CURRENT FILING DATE: 2002-03-25
; NUMBER OF SEQ ID NOS: 4085
```

```
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 244
; LENGTH: 7
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: example ZFP
US-09-989-789-244

Query Match
Best Local Similarity 100.0%; Score 36; DB 9; Length 7;
Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 RSDHLR 7
DB 1 RSDHLR 7

RESULT 8
US-09-989-789-420
; Sequence 420, Application US/09989789
; Patent No. US20020063379A1
; GENERAL INFORMATION:
; APPLICANT: LIU, Qiang
; TITLE OF INVENTION: POSITION DEPENDENT RECOGNITION OF GNN NUCLEOTIDE
; FILE REFERENCE: 8325-0011.20 / S11-US2
; CURRENT APPLICATION NUMBER: US/09/989,789
; CURRENT FILING DATE: 2002-03-25
; NUMBER OF SEQ ID NOS: 4085
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 420
; LENGTH: 7
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: example ZFP
US-09-989-789-420

Query Match
Best Local Similarity 100.0%; Score 36; DB 9; Length 7;
Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 RSDHLR 7
DB 1 RSDHLR 7

RESULT 9
US-09-989-789-425
; Sequence 425, Application US/09989789
; Patent No. US20020063379A1
; GENERAL INFORMATION:
; APPLICANT: LIU, Qiang
; TITLE OF INVENTION: POSITION DEPENDENT RECOGNITION OF GNN NUCLEOTIDE
; FILE REFERENCE: 8325-0011.20 / S11-US2
; CURRENT APPLICATION NUMBER: US/09/989,789
; CURRENT FILING DATE: 2002-03-25
; NUMBER OF SEQ ID NOS: 4085
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 425
; LENGTH: 7
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: example ZFP
US-09-989-789-425

Query Match
Best Local Similarity 100.0%; Score 36; DB 9; Length 7;
Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
```

PT protein -
 XX Example 2; Page 64-65; 101pp; English.
 CC The specification describes a method for modulating expression of an
 CC endogenous cellular gene in a cell. The method comprises contacting a
 CC target site in the endogenous cellular gene with a zinc finger protein
 CC (ZFP). The method is used to inhibit expression of a gene, to activate
 CC expression of a developmentally silent or inactive endogenous cellular
 CC gene e.g. EPO, GATA, hemoglobin gamma, hemoglobin delta, an interleukin,
 CC granulocyte macrophage colony stimulating factor (GM-CSF), eutrophin or
 CC MyoD. Modulation of gene expression can be used for treating cancer,
 CC ischemia, diabetic retinopathy, macular degeneration, rheumatoid
 CC arthritis, psoriasis, viral infection, sickle cell anaemia, Alzheimer's
 CC disease, cystic fibrosis, neurodegenerative diseases and stroke.
 CC ZFPs can be used to engineer plants which have increased disease
 CC resistance, modification of flavours, fruit ripening, yield, colour, and
 CC for enhanced oil production in crop plants. The ZFPs can also be used
 CC in assays to determine the phenotypic consequences and function of gene
 CC expression. The present sequence represents a 6 finger ZFP, which
 CC inhibits human vascular endothelial growth factor (VEGF) gene.
 SQ Sequence 196 AA;
 Query Match 100.0%; Score 36; DB 21; Length 196;
 Best Local Similarity 100.0%; Pred. No. 9.5;
 Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
 QY 1 RSDHLSR 7
 Db 178 RSDHLSR 184
 RESULT 158
 AA08714
 ID AA08714 standard; Protein; 196 AA.
 XX
 AC AA08714;
 XX
 DT 15-NOV-2001 (first entry)
 XX
 DE Human ZFP-vascular endothelial growth factor 3a/1 (VEGF3a/1) protein.
 DE Human; vascular endothelial growth factor; VEGF3a/1; molecular target;
 KM zinc finger protein; ZFP; cellular process; signal transduction;
 KM drug-screening.
 XX
 OS Homo sapiens.
 XX
 PN WO200159450-A2.
 XX
 PD 16-AUG-2001.
 XX
 PF 08-FEB-2001; 2001WO-US04301.
 XX
 PR 08-FEB-2000; 2000US-0181117.
 XX
 PA (SANG-) SANGAMO BIOSCIENCES INC.
 XX
 PI Case C;
 XX
 DR WPI; 2001-522491/57.
 DR N-PSDB; AAD15346.
 XX
 PT Screening compound for interaction with molecular target by contacting
 PT compound with cells, comprising exogenous zinc finger protein that
 PT modulates expression of target, and determining values of properties of
 PT cells -
 XX Example 2; Page 58; 99pp; English.
 PS
 CC The invention relates to a method of screening a compound for interaction
 CC with a molecular target. The method involves contacting first and

CC second cells with the compound and determining the values of properties
 CC of the compound. The second cell comprises an exogenous zinc finger
 CC protein (ZFP) that modulates the expression of the molecular target, or
 CC isolating membranes from cells comprising ZFP. The methods allow for high
 CC throughput screening of candidate compound and reduces the incidence of
 CC false positives. The methods are useful for screening a compound for
 CC interaction with a molecular target or for screening a compound for its
 CC effect on a cellular process. The method is useful for testing a compound
 CC for its capacity to transduce a signal to the molecular target or its
 CC capacity to block transduction of a signal through the molecular target,
 CC and for performing biochemical drug-screening assays. The present
 CC sequence is human vascular endothelial growth factor 3a
 CC (VEGF3a/1)-ZFP protein. VEGF is a 46 kDa glycoprotein that is
 CC an endothelial cell-specific mitogen induced by hypoxia. VEGF has
 CC been implicated in angiogenesis associated with cancer, various
 CC retinopathies and other serious diseases.
 SQ Sequence 196 AA;
 Query Match 100.0%; Score 36; DB 22; Length 196;
 Best Local Similarity 100.0%; Pred. No. 9.5;
 Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
 QY 1 RSDHLSR 7
 Db 178 RSDHLSR 184
 RESULT 159
 AA021123
 ID AA021123 standard; peptide; 196 AA.
 XX
 AC AA021123;
 XX
 DT 01-JUL-2002 (first entry)
 XX
 DE 5 finger protein used to modulate gene expression.
 XX
 KM DNA binding protein; zinc finger domain; zinc finger protein; ZFP;
 KM viral replication; gene expression; virucide; 5 finger protein.
 XX
 OS Unidentified.
 XX
 PN WO200208286-A2.
 XX
 PD 31-JAN-2002.
 XX
 PF 19-JUL-2001; 2001WO-BP08367.
 XX
 PR 21-JUL-2000; 2000US-220060P.
 XX
 PA (SYGN) SYNGENTA PARTICIPATIONS AG.
 XX
 PI Sera T;
 XX
 DR WPI; 2002-172000/22.
 XX
 PT New Zinc Finger Protein (ZFP) comprising three essential domains useful
 PT for diagnosing diseases associated with abnormal genomic structure -
 XX
 PS Claim 1; Page 28; 143pp; English.
 XX
 CC The present invention relates to novel DNA binding proteins comprising
 CC zinc finger domains in which two histidine and two cysteine residues
 CC coordinate a central zinc ion. The invention particularly relates to
 CC the identification of a context-independent recognition code to design
 CC zinc finger domains. The invention also relates to zinc finger proteins
 CC (ZFP) designed using this recognition code. The ZFPs are useful for
 CC altering genomic structure, inhibiting viral replication (where viral
 CC replication is inhibited for plant virus, an animal virus or a human
 CC virus), modulating gene expression, detecting an altered zinc finger
 CC recognition sequence and diagnosing disease associated with abnormal
 CC genomic structure. The present sequence is a 5 finger protein used

Query Match 100.0%; Score 36; DB 9; Length 7;
Best Local Similarity 100.0%; Pred. No. 7e+05;
Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 RSDHLSR 7
Db 1 RSDHLSR 7

RESULT 15

US-09-989-789-888
; Sequence 888; Application US/09989789
; Patent No. US20020063379A1
; GENERAL INFORMATION:
; APPLICANT: LIU, Qiang
; TITLE OF INVENTION: POSITION DEPENDENT RECOGNITION OF GNN NUCLEOTIDE
; FILE REFERENCE: 8325-0011.20 / S11-US2
; CURRENT FILING DATE: 2002-03-25
; CURRENT APPLICATION NUMBER: US/09/989,789
; NUMBER OF SEQ ID NOS: 4085
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 888
; LENGTH: 7
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: example ZFP
US-09-989-789-888

Query Match 100.0%; Score 36; DB 9; Length 7;
Best Local Similarity 100.0%; Pred. No. 7e+05;
Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 RSDHLSR 7
Db 1 RSDHLSR 7

RESULT 16

US-09-989-789-1001
; Sequence 1001; Application US/09989789
; Patent No. US20020063379A1
; GENERAL INFORMATION:
; APPLICANT: LIU, Qiang
; TITLE OF INVENTION: POSITION DEPENDENT RECOGNITION OF GNN NUCLEOTIDE
; FILE REFERENCE: 8325-0011.20 / S11-US2
; CURRENT FILING DATE: 2002-03-25
; CURRENT APPLICATION NUMBER: US/09/989,789
; NUMBER OF SEQ ID NOS: 4085
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 1001
; LENGTH: 7
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: example ZFP
US-09-989-789-1001

Query Match 100.0%; Score 36; DB 9; Length 7;
Best Local Similarity 100.0%; Pred. No. 7e+05;
Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 RSDHLSR 7
Db 1 RSDHLSR 7

RESULT 17
US-09-989-789-1089
; Sequence 1089; Application US/09989789
; Patent No. US20020063379A1

GENERAL INFORMATION:
; APPLICANT: LIU, Qiang
; TITLE OF INVENTION: POSITION DEPENDENT RECOGNITION OF GNN NUCLEOTIDE
; FILE REFERENCE: 8325-0011.20 / S11-US2
; CURRENT FILING DATE: 2002-03-25
; CURRENT APPLICATION NUMBER: US/09/989,789
; NUMBER OF SEQ ID NOS: 4085
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 1089
; LENGTH: 7
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: example ZFP
US-09-989-789-1089

Query Match 100.0%; Score 36; DB 9; Length 7;
Best Local Similarity 100.0%; Pred. No. 7e+05;
Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 RSDHLSR 7
Db 1 RSDHLSR 7

RESULT 18

US-09-989-789-1090
; Sequence 1090; Application US/09989789
; Patent No. US20020063379A1
; GENERAL INFORMATION:
; APPLICANT: LIU, Qiang
; TITLE OF INVENTION: POSITION DEPENDENT RECOGNITION OF GNN NUCLEOTIDE
; FILE REFERENCE: 8325-0011.20 / S11-US2
; CURRENT FILING DATE: 2002-03-25
; CURRENT APPLICATION NUMBER: US/09/989,789
; NUMBER OF SEQ ID NOS: 4085
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 1090
; LENGTH: 7
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: example ZFP
US-09-989-789-1090

Query Match 100.0%; Score 36; DB 9; Length 7;
Best Local Similarity 100.0%; Pred. No. 7e+05;
Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 RSDHLSR 7
Db 1 RSDHLSR 7

RESULT 19

US-09-989-789-1091
; Sequence 1091; Application US/09989789
; Patent No. US20020063379A1
; GENERAL INFORMATION:
; APPLICANT: LIU, Qiang
; TITLE OF INVENTION: POSITION DEPENDENT RECOGNITION OF GNN NUCLEOTIDE
; FILE REFERENCE: 8325-0011.20 / S11-US2
; CURRENT FILING DATE: 2002-03-25
; CURRENT APPLICATION NUMBER: US/09/989,789
; NUMBER OF SEQ ID NOS: 4085
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 1091
; LENGTH: 7
; TYPE: PRT
; ORGANISM: Artificial Sequence

US-09-989-789-1091

FEATURE:
OTHER INFORMATION: Description of Artificial Sequence: example ZFP
US-09-989-789-1094

Query Match
Best Local Similarity 100.0%; Score 36; DB 9; Length 7;
Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 RSDHLSR 7
1 RSDHLSR 7
1 RSDHLSR 7

RESULT 20
US-09-989-789-1094
Sequence 1094, Application US/09989789
Patent No. US20020063379A1
GENERAL INFORMATION:
APPLICANT: LIU, Qiang
TITLE OF INVENTION: POSITION DEPENDENT RECOGNITION OF GNN NUCLEOTIDE
FILE REFERENCE: 8325-0011.20 / S11-US2
CURRENT APPLICATION NUMBER: US/09/989,789
CURRENT FILING DATE: 2002-03-25
NUMBER OF SEQ ID NOS: 4085
SOFTWARE: PatentIn Ver. 2.0
SEQ ID NO 1094
LENGTH: 7
TYPE: PRT
ORGANISM: Artificial Sequence
FEATURE:
OTHER INFORMATION: Description of Artificial Sequence: example ZFP
US-09-989-789-1094

Query Match
Best Local Similarity 100.0%; Score 36; DB 9; Length 7;
Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 RSDHLSR 7
1 RSDHLSR 7
1 RSDHLSR 7

RESULT 21
US-09-989-789-1138
Sequence 1138, Application US/09989789
Patent No. US20020063379A1
GENERAL INFORMATION:
APPLICANT: LIU, Qiang
TITLE OF INVENTION: POSITION DEPENDENT RECOGNITION OF GNN NUCLEOTIDE
FILE REFERENCE: 8325-0011.20 / S11-US2
CURRENT APPLICATION NUMBER: US/09/989,789
CURRENT FILING DATE: 2002-03-25
NUMBER OF SEQ ID NOS: 4085
SOFTWARE: PatentIn Ver. 2.0
SEQ ID NO 1138
LENGTH: 7
TYPE: PRT
ORGANISM: Artificial Sequence
FEATURE:
OTHER INFORMATION: Description of Artificial Sequence: example ZFP
US-09-989-789-1138

Query Match
Best Local Similarity 100.0%; Score 36; DB 9; Length 7;
Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 RSDHLSR 7
1 RSDHLSR 7
1 RSDHLSR 7

RESULT 22
US-09-989-789-1139
Sequence 1139, Application US/09989789
Patent No. US20020063379A1
GENERAL INFORMATION:
APPLICANT: LIU, Qiang
TITLE OF INVENTION: POSITION DEPENDENT RECOGNITION OF GNN NUCLEOTIDE
FILE REFERENCE: 8325-0011.20 / S11-US2
CURRENT APPLICATION NUMBER: US/09/989,789
CURRENT FILING DATE: 2002-03-25
NUMBER OF SEQ ID NOS: 4085
SOFTWARE: PatentIn Ver. 2.0
SEQ ID NO 1139
LENGTH: 7
TYPE: PRT
ORGANISM: Artificial Sequence
FEATURE:
OTHER INFORMATION: Description of Artificial Sequence: example ZFP
US-09-989-789-1139

Query Match
Best Local Similarity 100.0%; Score 36; DB 9; Length 7;
Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 RSDHLSR 7
1 RSDHLSR 7
1 RSDHLSR 7

RESULT 23
US-09-989-789-1178
Sequence 1178, Application US/09989789
Patent No. US20020063379A1
GENERAL INFORMATION:
APPLICANT: LIU, Qiang
TITLE OF INVENTION: POSITION DEPENDENT RECOGNITION OF GNN NUCLEOTIDE
FILE REFERENCE: 8325-0011.20 / S11-US2
CURRENT APPLICATION NUMBER: US/09/989,789
CURRENT FILING DATE: 2002-03-25
NUMBER OF SEQ ID NOS: 4085
SOFTWARE: PatentIn Ver. 2.0
SEQ ID NO 1178
LENGTH: 7
TYPE: PRT
ORGANISM: Artificial Sequence
FEATURE:
OTHER INFORMATION: Description of Artificial Sequence: example ZFP
US-09-989-789-1178

Query Match
Best Local Similarity 100.0%; Score 36; DB 9; Length 7;
Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 RSDHLSR 7
1 RSDHLSR 7
1 RSDHLSR 7

RESULT 24
US-09-989-789-1179
Sequence 1179, Application US/09989789
Patent No. US20020063379A1
GENERAL INFORMATION:
APPLICANT: LIU, Qiang
TITLE OF INVENTION: POSITION DEPENDENT RECOGNITION OF GNN NUCLEOTIDE
FILE REFERENCE: 8325-0011.20 / S11-US2
CURRENT APPLICATION NUMBER: US/09/989,789
CURRENT FILING DATE: 2002-03-25
NUMBER OF SEQ ID NOS: 4085
SOFTWARE: PatentIn Ver. 2.0

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; SEQ ID NO 1179
; LENGTH: 7
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: example ZFP
US-09-989-789-1179

Query Match
Best Local Similarity 100.0%; Score 36; DB 9; Length 7;
Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 RSDHLSR 7
Db 1 RSDHLSR 7

RESULT 25
US-09-989-789-1199
; Sequence 1199, Application US/09989789
; Patent No. US2002063379A1
; GENERAL INFORMATION:
; APPLICANT: LIU, Qiang
; TITLE OF INVENTION: POSITION DEPENDENT RECOGNITION OF GNN NUCLEOTIDE
; FILE REFERENCE: 8325-0011.20 / S11-US2
; CURRENT APPLICATION NUMBER: US/09/989,789
; CURRENT FILING DATE: 2002-03-25
; NUMBER OF SEQ ID NOS: 4085
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 1199
; LENGTH: 7
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: example ZFP
US-09-989-789-1199

Query Match
Best Local Similarity 100.0%; Score 36; DB 9; Length 7;
Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 RSDHLSR 7
Db 1 RSDHLSR 7

RESULT 26
US-09-989-789-1207
; Sequence 1207, Application US/09989789
; Patent No. US2002063379A1
; GENERAL INFORMATION:
; APPLICANT: LIU, Qiang
; TITLE OF INVENTION: POSITION DEPENDENT RECOGNITION OF GNN NUCLEOTIDE
; FILE REFERENCE: 8325-0011.20 / S11-US2
; CURRENT APPLICATION NUMBER: US/09/989,789
; CURRENT FILING DATE: 2002-03-25
; NUMBER OF SEQ ID NOS: 4085
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 1207
; LENGTH: 7
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: example ZFP
US-09-989-789-1207

Query Match
Best Local Similarity 100.0%; Score 36; DB 9; Length 7;
Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 RSDHLSR 7
Db 1 RSDHLSR 7
```

```
Db 1 RSDHLSR 7

RESULT 27
US-09-989-789-1219
; Sequence 1219, Application US/09989789
; Patent No. US2002063379A1
; GENERAL INFORMATION:
; APPLICANT: LIU, Qiang
; TITLE OF INVENTION: POSITION DEPENDENT RECOGNITION OF GNN NUCLEOTIDE
; FILE REFERENCE: 8325-0011.20 / S11-US2
; CURRENT APPLICATION NUMBER: US/09/989,789
; CURRENT FILING DATE: 2002-03-25
; NUMBER OF SEQ ID NOS: 4085
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 1219
; LENGTH: 7
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: example ZFP
US-09-989-789-1219

Query Match
Best Local Similarity 100.0%; Score 36; DB 9; Length 7;
Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 RSDHLSR 7
Db 1 RSDHLSR 7

RESULT 28
US-09-989-789-1220
; Sequence 1220, Application US/09989789
; Patent No. US2002063379A1
; GENERAL INFORMATION:
; APPLICANT: LIU, Qiang
; TITLE OF INVENTION: POSITION DEPENDENT RECOGNITION OF GNN NUCLEOTIDE
; FILE REFERENCE: 8325-0011.20 / S11-US2
; CURRENT APPLICATION NUMBER: US/09/989,789
; CURRENT FILING DATE: 2002-03-25
; NUMBER OF SEQ ID NOS: 4085
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 1220
; LENGTH: 7
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: example ZFP
US-09-989-789-1220

Query Match
Best Local Similarity 100.0%; Score 36; DB 9; Length 7;
Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 RSDHLSR 7
Db 1 RSDHLSR 7

RESULT 29
US-09-989-789-1224
; Sequence 1224, Application US/09989789
; Patent No. US2002063379A1
; GENERAL INFORMATION:
; APPLICANT: LIU, Qiang
; TITLE OF INVENTION: POSITION DEPENDENT RECOGNITION OF GNN NUCLEOTIDE
; FILE REFERENCE: 8325-0011.20 / S11-US2
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CURRENT APPLICATION NUMBER: US/09/989,789
CURRENT FILING DATE: 2002-03-25
NUMBER OF SEQ ID NOS: 4085
SOFTWARE: PatentIn Ver. 2.0
SEQ ID NO 1224
LENGTH: 7
TYPE: PRT
ORGANISM: Artificial Sequence
FEATURE:
OTHER INFORMATION: Description of Artificial Sequence: example ZFP
US-09-989-789-1224

Query Match 100.0%; Score 36; DB 9; Length 7;
Best Local Similarity 100.0%; Pred. No. 7e+05; Indels 0; Gaps 0;
Matches 7; Conservative 0; Mismatches 0;

OY 1 RSDHLSR 7
Db 1 RSDHLSR 7

RESULT 30
US-09-989-789-1225
Sequence 1225, Application US/09989789
Patent No. US20020063379A1
GENERAL INFORMATION:
APPLICANT: LIU, Qiang
TITLE OF INVENTION: POSITION DEPENDENT RECOGNITION OF GNN NUCLEOTIDE
FILE REFERENCE: 8325-0011.20 / S11-US2
CURRENT APPLICATION NUMBER: US/09/989,789
CURRENT FILING DATE: 2002-03-25
NUMBER OF SEQ ID NOS: 4085
SOFTWARE: PatentIn Ver. 2.0
SEQ ID NO 1225
LENGTH: 7
TYPE: PRT
ORGANISM: Artificial Sequence
FEATURE:
OTHER INFORMATION: Description of Artificial Sequence: example ZFP
US-09-989-789-1225

Query Match 100.0%; Score 36; DB 9; Length 7;
Best Local Similarity 100.0%; Pred. No. 7e+05; Indels 0; Gaps 0;
Matches 7; Conservative 0; Mismatches 0;

OY 1 RSDHLSR 7
Db 1 RSDHLSR 7

RESULT 31
US-09-989-789-1234
Sequence 1234, Application US/09989789
Patent No. US20020063379A1
GENERAL INFORMATION:
APPLICANT: LIU, Qiang
TITLE OF INVENTION: POSITION DEPENDENT RECOGNITION OF GNN NUCLEOTIDE
FILE REFERENCE: 8325-0011.20 / S11-US2
CURRENT APPLICATION NUMBER: US/09/989,789
CURRENT FILING DATE: 2002-03-25
NUMBER OF SEQ ID NOS: 4085
SOFTWARE: PatentIn Ver. 2.0
SEQ ID NO 1234
LENGTH: 7
TYPE: PRT
ORGANISM: Artificial Sequence
FEATURE:
OTHER INFORMATION: Description of Artificial Sequence: example ZFP
US-09-989-789-1234

Query Match 100.0%; Score 36; DB 9; Length 7;

Best Local Similarity 100.0%; Pred. No. 7e+05; Indels 0; Gaps 0;
Matches 7; Conservative 0; Mismatches 0;

OY 1 RSDHLSR 7
Db 1 RSDHLSR 7

RESULT 32
US-09-989-789-1260
Sequence 1260, Application US/09989789
Patent No. US20020063379A1
GENERAL INFORMATION:
APPLICANT: LIU, Qiang
TITLE OF INVENTION: POSITION DEPENDENT RECOGNITION OF GNN NUCLEOTIDE
FILE REFERENCE: 8325-0011.20 / S11-US2
CURRENT APPLICATION NUMBER: US/09/989,789
CURRENT FILING DATE: 2002-03-25
NUMBER OF SEQ ID NOS: 4085
SOFTWARE: PatentIn Ver. 2.0
SEQ ID NO 1260
LENGTH: 7
TYPE: PRT
ORGANISM: Artificial Sequence
FEATURE:
OTHER INFORMATION: Description of Artificial Sequence: example ZFP
US-09-989-789-1260

Query Match 100.0%; Score 36; DB 9; Length 7;
Best Local Similarity 100.0%; Pred. No. 7e+05; Indels 0; Gaps 0;
Matches 7; Conservative 0; Mismatches 0;

OY 1 RSDHLSR 7
Db 1 RSDHLSR 7

RESULT 33
US-09-989-789-1471
Sequence 1471, Application US/09989789
Patent No. US20020063379A1
GENERAL INFORMATION:
APPLICANT: LIU, Qiang
TITLE OF INVENTION: POSITION DEPENDENT RECOGNITION OF GNN NUCLEOTIDE
FILE REFERENCE: 8325-0011.20 / S11-US2
CURRENT APPLICATION NUMBER: US/09/989,789
CURRENT FILING DATE: 2002-03-25
NUMBER OF SEQ ID NOS: 4085
SOFTWARE: PatentIn Ver. 2.0
SEQ ID NO 1471
LENGTH: 7
TYPE: PRT
ORGANISM: Artificial Sequence
FEATURE:
OTHER INFORMATION: Description of Artificial Sequence: example ZFP
US-09-989-789-1471

Query Match 100.0%; Score 36; DB 9; Length 7;
Best Local Similarity 100.0%; Pred. No. 7e+05; Indels 0; Gaps 0;
Matches 7; Conservative 0; Mismatches 0;

OY 1 RSDHLSR 7
Db 1 RSDHLSR 7

RESULT 34
US-09-989-789-1529
Sequence 1529, Application US/09989789
Patent No. US20020063379A1
GENERAL INFORMATION:

```

; APPLICANT: LIU, Qiang
; TITLE OF INVENTION: POSITION DEPENDENT RECOGNITION OF GNN NUCLEOTIDE
; FILE REFERENCE: 8325-0011.20 / S11-US2
; CURRENT APPLICATION NUMBER: US/09/989,789
; CURRENT FILING DATE: 2002-03-25
; NUMBER OF SEQ ID NOS: 4085
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO: 1525
; LENGTH: 7
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: example ZFP
US-09-989-789-1529

Query Match
Best Local Similarity 100.0%; Score 36; DB 9; Length 7;
Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Cy 1 RSDHLSR 7
Db 1 RSDHLSR 7

RESULT 35
US-09-989-789-1530
; Sequence 1530, Application US/09989789
; Patent No. US20020063379A1
; GENERAL INFORMATION:
; APPLICANT: LIU, Qiang
; TITLE OF INVENTION: POSITION DEPENDENT RECOGNITION OF GNN NUCLEOTIDE
; FILE REFERENCE: 8325-0011.20 / S11-US2
; CURRENT APPLICATION NUMBER: US/09/989,789
; CURRENT FILING DATE: 2002-03-25
; NUMBER OF SEQ ID NOS: 4085
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO: 1530
; LENGTH: 7
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: example ZFP
US-09-989-789-1530

Query Match
Best Local Similarity 100.0%; Score 36; DB 9; Length 7;
Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Cy 1 RSDHLSR 7
Db 1 RSDHLSR 7

RESULT 36
US-09-989-789-1541
; Sequence 1541, Application US/09989789
; Patent No. US20020063379A1
; GENERAL INFORMATION:
; APPLICANT: LIU, Qiang
; TITLE OF INVENTION: POSITION DEPENDENT RECOGNITION OF GNN NUCLEOTIDE
; FILE REFERENCE: 8325-0011.20 / S11-US2
; CURRENT APPLICATION NUMBER: US/09/989,789
; CURRENT FILING DATE: 2002-03-25
; NUMBER OF SEQ ID NOS: 4085
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO: 1541
; LENGTH: 7
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
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; OTHER INFORMATION: Description of Artificial Sequence: example ZFP
US-09-989-789-1541

Query Match
Best Local Similarity 100.0%; Score 36; DB 9; Length 7;
Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Cy 1 RSDHLSR 7
Db 1 RSDHLSR 7

RESULT 37
US-09-989-789-1546
; Sequence 1546, Application US/09989789
; Patent No. US20020063379A1
; GENERAL INFORMATION:
; APPLICANT: LIU, Qiang
; TITLE OF INVENTION: POSITION DEPENDENT RECOGNITION OF GNN NUCLEOTIDE
; FILE REFERENCE: 8325-0011.20 / S11-US2
; CURRENT APPLICATION NUMBER: US/09/989,789
; CURRENT FILING DATE: 2002-03-25
; NUMBER OF SEQ ID NOS: 4085
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO: 1546
; LENGTH: 7
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: example ZFP
US-09-989-789-1546

Query Match
Best Local Similarity 100.0%; Score 36; DB 9; Length 7;
Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Cy 1 RSDHLSR 7
Db 1 RSDHLSR 7

RESULT 38
US-09-989-789-1565
; Sequence 1565, Application US/09989789
; Patent No. US20020063379A1
; GENERAL INFORMATION:
; APPLICANT: LIU, Qiang
; TITLE OF INVENTION: POSITION DEPENDENT RECOGNITION OF GNN NUCLEOTIDE
; FILE REFERENCE: 8325-0011.20 / S11-US2
; CURRENT APPLICATION NUMBER: US/09/989,789
; CURRENT FILING DATE: 2002-03-25
; NUMBER OF SEQ ID NOS: 4085
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO: 1565
; LENGTH: 7
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: example ZFP
US-09-989-789-1565

Query Match
Best Local Similarity 100.0%; Score 36; DB 9; Length 7;
Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Cy 1 RSDHLSR 7
Db 1 RSDHLSR 7

RESULT 39
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US-09-989-789-1575
; Sequence 1575, Application US/09989789
; Patent No. US2002006379A1
; GENERAL INFORMATION:
; APPLICANT: LIU, Qiang
; TITLE OF INVENTION: POSITION DEPENDENT RECOGNITION OF GNN NUCLEOTIDE
; FILE REFERENCE: 8325-0011.20 / S11-US2
; CURRENT APPLICATION NUMBER: US/09/989,789
; CURRENT FILING DATE: 2002-03-25
; NUMBER OF SEQ ID NOS: 4085
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 1575
; LENGTH: 7
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: example ZFP
US-09-989-789-1575

Query Match          100.0%; Score 36; DB 9; Length 7;
Best Local Similarity 100.0%; Pred. No. 7e+05;
Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 RSDHLSR 7
Db 1 RSDHLSR 7

RESULT 40
US-09-989-789-1603
; Sequence 1603, Application US/09989789
; Patent No. US2002006379A1
; GENERAL INFORMATION:
; APPLICANT: LIU, Qiang
; TITLE OF INVENTION: POSITION DEPENDENT RECOGNITION OF GNN NUCLEOTIDE
; FILE REFERENCE: 8325-0011.20 / S11-US2
; CURRENT APPLICATION NUMBER: US/09/989,789
; CURRENT FILING DATE: 2002-03-25
; NUMBER OF SEQ ID NOS: 4085
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 1603
; LENGTH: 7
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: example ZFP
US-09-989-789-1603

Query Match          100.0%; Score 36; DB 9; Length 7;
Best Local Similarity 100.0%; Pred. No. 7e+05;
Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 RSDHLSR 7
Db 1 RSDHLSR 7

RESULT 41
US-09-989-789-1714
; Sequence 1714, Application US/09989789
; Patent No. US2002006379A1
; GENERAL INFORMATION:
; APPLICANT: LIU, Qiang
; TITLE OF INVENTION: POSITION DEPENDENT RECOGNITION OF GNN NUCLEOTIDE
; FILE REFERENCE: 8325-0011.20 / S11-US2
; CURRENT APPLICATION NUMBER: US/09/989,789
; CURRENT FILING DATE: 2002-03-25
; NUMBER OF SEQ ID NOS: 4085
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 1714

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; LENGTH: 7
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: example ZFP
US-09-989-789-1714

Query Match          100.0%; Score 36; DB 9; Length 7;
Best Local Similarity 100.0%; Pred. No. 7e+05;
Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 RSDHLSR 7
Db 1 RSDHLSR 7

RESULT 42
US-09-989-789-1715
; Sequence 1715, Application US/09989789
; Patent No. US2002006379A1
; GENERAL INFORMATION:
; APPLICANT: LIU, Qiang
; TITLE OF INVENTION: POSITION DEPENDENT RECOGNITION OF GNN NUCLEOTIDE
; FILE REFERENCE: 8325-0011.20 / S11-US2
; CURRENT APPLICATION NUMBER: US/09/989,789
; CURRENT FILING DATE: 2002-03-25
; NUMBER OF SEQ ID NOS: 4085
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 1715
; LENGTH: 7
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: example ZFP
US-09-989-789-1715

Query Match          100.0%; Score 36; DB 9; Length 7;
Best Local Similarity 100.0%; Pred. No. 7e+05;
Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 RSDHLSR 7
Db 1 RSDHLSR 7

RESULT 43
US-09-989-789-1716
; Sequence 1716, Application US/09989789
; Patent No. US2002006379A1
; GENERAL INFORMATION:
; APPLICANT: LIU, Qiang
; TITLE OF INVENTION: POSITION DEPENDENT RECOGNITION OF GNN NUCLEOTIDE
; FILE REFERENCE: 8325-0011.20 / S11-US2
; CURRENT APPLICATION NUMBER: US/09/989,789
; CURRENT FILING DATE: 2002-03-25
; NUMBER OF SEQ ID NOS: 4085
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 1716
; LENGTH: 7
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: example ZFP
US-09-989-789-1716

Query Match          100.0%; Score 36; DB 9; Length 7;
Best Local Similarity 100.0%; Pred. No. 7e+05;
Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 RSDHLSR 7
Db 1 RSDHLSR 7

```

```

Db          1 RSDHLSR 7

RESULT 44
US-09-989-789-1717
; Sequence 1717, Application US/09989789
; Patent No. US20020063379A1
; GENERAL INFORMATION:
; APPLICANT: Liu, Qiang
; TITLE OF INVENTION: POSITION DEPENDENT RECOGNITION OF GNN NUCLEOTIDE
; FILE REFERENCE: 8325-0011.20 / S11-US2
; CURRENT APPLICATION NUMBER: US/09/989,789
; CURRENT FILING DATE: 2002-03-25
; NUMBER OF SEQ ID NOS: 4085
; SOFTWARE: Patentln Ver. 2.0
; SEQ ID NO 1717
; LENGTH: 7
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: example ZFP
US-09-989-789-1717

Query Match
Best Local Similarity 100.0%; Score 36; DB 9; Length 7;
Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy          1 RSDHLSR 7
          1 RSDHLSR 7
          1 RSDHLSR 7

RESULT 45
US-09-989-789-1718
; Sequence 1718, Application US/09989789
; Patent No. US20020063379A1
; GENERAL INFORMATION:
; APPLICANT: Liu, Qiang
; TITLE OF INVENTION: POSITION DEPENDENT RECOGNITION OF GNN NUCLEOTIDE
; FILE REFERENCE: 8325-0011.20 / S11-US2
; CURRENT APPLICATION NUMBER: US/09/989,789
; CURRENT FILING DATE: 2002-03-25
; NUMBER OF SEQ ID NOS: 4085
; SOFTWARE: Patentln Ver. 2.0
; SEQ ID NO 1718
; LENGTH: 7
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: example ZFP
US-09-989-789-1718

Query Match
Best Local Similarity 100.0%; Score 36; DB 9; Length 7;
Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy          1 RSDHLSR 7
          1 RSDHLSR 7
          1 RSDHLSR 7

RESULT 46
US-09-989-789-1870
; Sequence 1870, Application US/09989789
; Patent No. US20020063379A1
; GENERAL INFORMATION:
; APPLICANT: Liu, Qiang
; TITLE OF INVENTION: POSITION DEPENDENT RECOGNITION OF GNN NUCLEOTIDE
; FILE REFERENCE: 8325-0011.20 / S11-US2
; CURRENT APPLICATION NUMBER: US/09/989,789

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; CURRENT FILING DATE: 2002-03-25
; NUMBER OF SEQ ID NOS: 4085
; SOFTWARE: Patentln Ver. 2.0
; SEQ ID NO 1870
; LENGTH: 7
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: example ZFP
US-09-989-789-1870

Query Match
Best Local Similarity 100.0%; Score 36; DB 9; Length 7;
Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy          1 RSDHLSR 7
          1 RSDHLSR 7
          1 RSDHLSR 7

RESULT 47
US-09-989-789-1872
; Sequence 1872, Application US/09989789
; Patent No. US20020063379A1
; GENERAL INFORMATION:
; APPLICANT: Liu, Qiang
; TITLE OF INVENTION: POSITION DEPENDENT RECOGNITION OF GNN NUCLEOTIDE
; FILE REFERENCE: 8325-0011.20 / S11-US2
; CURRENT APPLICATION NUMBER: US/09/989,789
; CURRENT FILING DATE: 2002-03-25
; NUMBER OF SEQ ID NOS: 4085
; SOFTWARE: Patentln Ver. 2.0
; SEQ ID NO 1872
; LENGTH: 7
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: example ZFP
US-09-989-789-1872

Query Match
Best Local Similarity 100.0%; Score 36; DB 9; Length 7;
Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy          1 RSDHLSR 7
          1 RSDHLSR 7
          1 RSDHLSR 7

RESULT 48
US-09-989-789-1878
; Sequence 1878, Application US/09989789
; Patent No. US20020063379A1
; GENERAL INFORMATION:
; APPLICANT: Liu, Qiang
; TITLE OF INVENTION: POSITION DEPENDENT RECOGNITION OF GNN NUCLEOTIDE
; FILE REFERENCE: 8325-0011.20 / S11-US2
; CURRENT APPLICATION NUMBER: US/09/989,789
; CURRENT FILING DATE: 2002-03-25
; NUMBER OF SEQ ID NOS: 4085
; SOFTWARE: Patentln Ver. 2.0
; SEQ ID NO 1878
; LENGTH: 7
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: example ZFP
US-09-989-789-1878

Query Match
Best Local Similarity 100.0%; Score 36; DB 9; Length 7;
Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy          1 RSDHLSR 7
          1 RSDHLSR 7
          1 RSDHLSR 7

```

Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 RSDHLR 7
Db 1 RSDHLR 7

RESULT 49

US-09-989-789-1881
; Sequence 1881, Application US/09989789
; Patent No. US2002006379A1
; GENERAL INFORMATION:
; APPLICANT: LIU, Qiang
; TITLE OF INVENTION: POSITION DEPENDENT RECOGNITION OF GNN NUCLEOTIDE
; FILE REFERENCE: 8325-0011.20 / S11-US2
; CURRENT APPLICATION NUMBER: US/09/989,789
; CURRENT FILING DATE: 2002-03-25
; NUMBER OF SEQ ID NOS: 4085
; SOFTWARE: Patentln Ver. 2.0
; SEQ ID NO 1881
; LENGTH: 7
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: example ZFP
US-09-989-789-1881

Query Match 100.0%; Score 36; DB 9; Length 7;
Best Local Similarity 100.0%; Pred. No. 7e+05;
Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 RSDHLR 7
Db 1 RSDHLR 7

RESULT 50

US-09-989-789-1882
; Sequence 1882, Application US/09989789
; Patent No. US2002006379A1
; GENERAL INFORMATION:
; APPLICANT: LIU, Qiang
; TITLE OF INVENTION: POSITION DEPENDENT RECOGNITION OF GNN NUCLEOTIDE
; FILE REFERENCE: 8325-0011.20 / S11-US2
; CURRENT APPLICATION NUMBER: US/09/989,789
; CURRENT FILING DATE: 2002-03-25
; NUMBER OF SEQ ID NOS: 4085
; SOFTWARE: Patentln Ver. 2.0
; SEQ ID NO 1882
; LENGTH: 7
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: example ZFP
US-09-989-789-1882

Query Match 100.0%; Score 36; DB 9; Length 7;
Best Local Similarity 100.0%; Pred. No. 7e+05;
Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 RSDHLR 7
Db 1 RSDHLR 7

RESULT 51

US-09-989-789-1883
; Sequence 1883, Application US/09989789
; Patent No. US2002006379A1
; GENERAL INFORMATION:
; APPLICANT: LIU, Qiang

;; TITLE OF INVENTION: POSITION DEPENDENT RECOGNITION OF GNN NUCLEOTIDE
;; FILE REFERENCE: 8325-0011.20 / S11-US2

;; CURRENT APPLICATION NUMBER: US/09/989,789
;; CURRENT FILING DATE: 2002-03-25
;; NUMBER OF SEQ ID NOS: 4085
;; SOFTWARE: Patentln Ver. 2.0
;; SEQ ID NO 1883
;; LENGTH: 7
;; TYPE: PRT
;; ORGANISM: Artificial Sequence
;; FEATURE:
;; OTHER INFORMATION: Description of Artificial Sequence: example ZFP
US-09-989-789-1883

Query Match 100.0%; Score 36; DB 9; Length 7;
Best Local Similarity 100.0%; Pred. No. 7e+05;
Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 RSDHLR 7
Db 1 RSDHLR 7

RESULT 52

US-09-989-789-1884
; Sequence 1884, Application US/09989789
; Patent No. US2002006379A1
; GENERAL INFORMATION:
; APPLICANT: LIU, Qiang
; TITLE OF INVENTION: POSITION DEPENDENT RECOGNITION OF GNN NUCLEOTIDE
; FILE REFERENCE: 8325-0011.20 / S11-US2
; CURRENT APPLICATION NUMBER: US/09/989,789
; CURRENT FILING DATE: 2002-03-25
; NUMBER OF SEQ ID NOS: 4085
; SOFTWARE: Patentln Ver. 2.0
; SEQ ID NO 1884
; LENGTH: 7
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: example ZFP
US-09-989-789-1884

Query Match 100.0%; Score 36; DB 9; Length 7;
Best Local Similarity 100.0%; Pred. No. 7e+05;
Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 RSDHLR 7
Db 1 RSDHLR 7

RESULT 53

US-09-989-789-1951
; Sequence 1951, Application US/09989789
; Patent No. US2002006379A1
; GENERAL INFORMATION:
; APPLICANT: LIU, Qiang
; TITLE OF INVENTION: POSITION DEPENDENT RECOGNITION OF GNN NUCLEOTIDE
; FILE REFERENCE: 8325-0011.20 / S11-US2
; CURRENT APPLICATION NUMBER: US/09/989,789
; CURRENT FILING DATE: 2002-03-25
; NUMBER OF SEQ ID NOS: 4085
; SOFTWARE: Patentln Ver. 2.0
; SEQ ID NO 1951
; LENGTH: 7
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: example ZFP

US-09-989-789-1951

Query Match 100.0%; Score 36; DB 9; Length 7;
Best Local Similarity 100.0%; Pred. No. 7e+05;
Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 RSDHLSR 7
1 RSDHLSR 7

RESULT 54
US-09-989-789-1952

; Sequence 1952, Application US/09989789
; Patent No. US2002006379A1
; GENERAL INFORMATION:
; APPLICANT: LIU, Qiang
; TITLE OF INVENTION: POSITION DEPENDENT RECOGNITION OF GNN NUCLEOTIDE

; FILE REFERENCE: 8325-0011.20 / S11-US2
; CURRENT APPLICATION NUMBER: US/09/989,789
; CURRENT FILING DATE: 2002-03-25
; NUMBER OF SEQ ID NOS: 4085
; SOFTWARE: Patentin Ver. 2.0
; SEQ ID NO 1952
; LENGTH: 7
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:

; OTHER INFORMATION: Description of Artificial Sequence: example ZFP
US-09-989-789-1952

Query Match 100.0%; Score 36; DB 9; Length 7;
Best Local Similarity 100.0%; Pred. No. 7e+05;
Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 RSDHLSR 7
1 RSDHLSR 7

RESULT 55
US-09-989-789-1977

; Sequence 1977, Application US/09989789
; Patent No. US2002006379A1
; GENERAL INFORMATION:
; APPLICANT: LIU, Qiang
; TITLE OF INVENTION: POSITION DEPENDENT RECOGNITION OF GNN NUCLEOTIDE
; FILE REFERENCE: 8325-0011.20 / S11-US2
; CURRENT APPLICATION NUMBER: US/09/989,789
; CURRENT FILING DATE: 2002-03-25
; NUMBER OF SEQ ID NOS: 4085
; SOFTWARE: Patentin Ver. 2.0
; SEQ ID NO 1977
; LENGTH: 7
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:

; OTHER INFORMATION: Description of Artificial Sequence: example ZFP
US-09-989-789-1977

Query Match 100.0%; Score 36; DB 9; Length 7;
Best Local Similarity 100.0%; Pred. No. 7e+05;
Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 RSDHLSR 7
1 RSDHLSR 7

RESULT 56
US-09-989-789-2618

; Sequence 2618, Application US/09989789
; Patent No. US2002006379A1
; GENERAL INFORMATION:
; APPLICANT: LIU, Qiang
; TITLE OF INVENTION: POSITION DEPENDENT RECOGNITION OF GNN NUCLEOTIDE

; FILE REFERENCE: 8325-0011.20 / S11-US2
; CURRENT APPLICATION NUMBER: US/09/989,789
; CURRENT FILING DATE: 2002-03-25
; NUMBER OF SEQ ID NOS: 4085
; SOFTWARE: Patentin Ver. 2.0
; SEQ ID NO 2618
; LENGTH: 7
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:

; OTHER INFORMATION: Description of Artificial Sequence: example ZFP
US-09-989-789-2618

Query Match 100.0%; Score 36; DB 9; Length 7;
Best Local Similarity 100.0%; Pred. No. 7e+05;
Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 RSDHLSR 7
1 RSDHLSR 7

RESULT 57
US-09-989-789-2619

; Sequence 2619, Application US/09989789
; Patent No. US2002006379A1
; GENERAL INFORMATION:
; APPLICANT: LIU, Qiang
; TITLE OF INVENTION: POSITION DEPENDENT RECOGNITION OF GNN NUCLEOTIDE
; FILE REFERENCE: 8325-0011.20 / S11-US2
; CURRENT APPLICATION NUMBER: US/09/989,789
; CURRENT FILING DATE: 2002-03-25
; NUMBER OF SEQ ID NOS: 4085
; SOFTWARE: Patentin Ver. 2.0
; SEQ ID NO 2619
; LENGTH: 7
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:

; OTHER INFORMATION: Description of Artificial Sequence: example ZFP
US-09-989-789-2619

Query Match 100.0%; Score 36; DB 9; Length 7;
Best Local Similarity 100.0%; Pred. No. 7e+05;
Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 RSDHLSR 7
1 RSDHLSR 7

RESULT 58
US-09-989-789-2663

; Sequence 2663, Application US/09989789
; Patent No. US2002006379A1
; GENERAL INFORMATION:
; APPLICANT: LIU, Qiang
; TITLE OF INVENTION: POSITION DEPENDENT RECOGNITION OF GNN NUCLEOTIDE
; FILE REFERENCE: 8325-0011.20 / S11-US2
; CURRENT APPLICATION NUMBER: US/09/989,789
; CURRENT FILING DATE: 2002-03-25
; NUMBER OF SEQ ID NOS: 4085
; SOFTWARE: Patentin Ver. 2.0
; SEQ ID NO 2663
; LENGTH: 7

```

; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: example ZFP
US-09-989-789-2663

Query Match
Best Local Similarity 100.0%; Score 36; DB 9; Length 7;
Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 RSDHLR 7
DB 1 RSDHLR 7

RESULT 59
US-09-989-789-2741
; Sequence 2741, Application US/09989789
; Patent No. US20020063379A1
; GENERAL INFORMATION:
; APPLICANT: LIU, Qiang
; TITLE OF INVENTION: POSITION DEPENDENT RECOGNITION OF GNN NUCLEOTIDE
; FILE REFERENCE: 8325-0011.20 / S11-US2
; CURRENT APPLICATION NUMBER: US/09/989,789
; CURRENT FILING DATE: 2002-03-25
; NUMBER OF SEQ ID NOS: 4085
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 2741
; LENGTH: 7
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: example ZFP
US-09-989-789-2741

Query Match
Best Local Similarity 100.0%; Score 36; DB 9; Length 7;
Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 RSDHLR 7
DB 1 RSDHLR 7

RESULT 60
US-09-989-789-2742
; Sequence 2742, Application US/09989789
; Patent No. US20020063379A1
; GENERAL INFORMATION:
; APPLICANT: LIU, Qiang
; TITLE OF INVENTION: POSITION DEPENDENT RECOGNITION OF GNN NUCLEOTIDE
; FILE REFERENCE: 8325-0011.20 / S11-US2
; CURRENT APPLICATION NUMBER: US/09/989,789
; CURRENT FILING DATE: 2002-03-25
; NUMBER OF SEQ ID NOS: 4085
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 2742
; LENGTH: 7
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: example ZFP
US-09-989-789-2742

Query Match
Best Local Similarity 100.0%; Score 36; DB 9; Length 7;
Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 RSDHLR 7
DB 1 RSDHLR 7
```

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RESULT 61
US-09-989-789-2788
; Sequence 2788, Application US/09989789
; Patent No. US20020063379A1
; GENERAL INFORMATION:
; APPLICANT: LIU, Qiang
; TITLE OF INVENTION: POSITION DEPENDENT RECOGNITION OF GNN NUCLEOTIDE
; FILE REFERENCE: 8325-0011.20 / S11-US2
; CURRENT APPLICATION NUMBER: US/09/989,789
; CURRENT FILING DATE: 2002-03-25
; NUMBER OF SEQ ID NOS: 4085
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 2788
; LENGTH: 7
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: example ZFP
US-09-989-789-2788

Query Match
Best Local Similarity 100.0%; Score 36; DB 9; Length 7;
Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 RSDHLR 7
DB 1 RSDHLR 7

RESULT 62
US-09-989-789-2930
; Sequence 2930, Application US/09989789
; Patent No. US20020063379A1
; GENERAL INFORMATION:
; APPLICANT: LIU, Qiang
; TITLE OF INVENTION: POSITION DEPENDENT RECOGNITION OF GNN NUCLEOTIDE
; FILE REFERENCE: 8325-0011.20 / S11-US2
; CURRENT APPLICATION NUMBER: US/09/989,789
; CURRENT FILING DATE: 2002-03-25
; NUMBER OF SEQ ID NOS: 4085
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 2930
; LENGTH: 7
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: example ZFP
US-09-989-789-2930

Query Match
Best Local Similarity 100.0%; Score 36; DB 9; Length 7;
Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 RSDHLR 7
DB 1 RSDHLR 7

RESULT 63
US-09-989-789-2936
; Sequence 2936, Application US/09989789
; Patent No. US20020063379A1
; GENERAL INFORMATION:
; APPLICANT: LIU, Qiang
; TITLE OF INVENTION: POSITION DEPENDENT RECOGNITION OF GNN NUCLEOTIDE
; FILE REFERENCE: 8325-0011.20 / S11-US2
; CURRENT APPLICATION NUMBER: US/09/989,789
; CURRENT FILING DATE: 2002-03-25
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; NUMBER OF SEQ ID NOS: 4085
; SOFTWARE: Patentin Ver. 2.0
; SEQ ID NO 2936
; LENGTH: 7
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: example ZFP
US-09-989-789-2936

Query Match
Best Local Similarity 100.0%; Score 36; DB 9; Length 7;
Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 RSDHLSR 7
Db 1 RSDHLSR 7

RESULT 64
US-09-989-789-2937
; Sequence 2937, Application US/09989789
; Patent No. US2002006379A1
; GENERAL INFORMATION:
; APPLICANT: LIU, Qiang
; TITLE OF INVENTION: POSITION DEPENDENT RECOGNITION OF GNN NUCLEOTIDE
; FILE REFERENCE: 8325-0011.20 / S11-US2
; CURRENT APPLICATION NUMBER: US/09/989,789
; CURRENT FILING DATE: 2002-03-25
; NUMBER OF SEQ ID NOS: 4085
; SOFTWARE: Patentin Ver. 2.0
; SEQ ID NO 2937
; LENGTH: 7
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: example ZFP
US-09-989-789-2937

Query Match
Best Local Similarity 100.0%; Score 36; DB 9; Length 7;
Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 RSDHLSR 7
Db 1 RSDHLSR 7

RESULT 65
US-09-989-789-2940
; Sequence 2940, Application US/09989789
; Patent No. US2002006379A1
; GENERAL INFORMATION:
; APPLICANT: LIU, Qiang
; TITLE OF INVENTION: POSITION DEPENDENT RECOGNITION OF GNN NUCLEOTIDE
; FILE REFERENCE: 8325-0011.20 / S11-US2
; CURRENT APPLICATION NUMBER: US/09/989,789
; CURRENT FILING DATE: 2002-03-25
; NUMBER OF SEQ ID NOS: 4085
; SOFTWARE: Patentin Ver. 2.0
; SEQ ID NO 2940
; LENGTH: 7
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: example ZFP
US-09-989-789-2940

Query Match
Best Local Similarity 100.0%; Score 36; DB 9; Length 7;
Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
```

```

QY 1 RSDHLSR 7
Db 1 RSDHLSR 7

RESULT 66
US-09-989-789-2941
; Sequence 2941, Application US/09989789
; Patent No. US2002006379A1
; GENERAL INFORMATION:
; APPLICANT: LIU, Qiang
; TITLE OF INVENTION: POSITION DEPENDENT RECOGNITION OF GNN NUCLEOTIDE
; FILE REFERENCE: 8325-0011.20 / S11-US2
; CURRENT APPLICATION NUMBER: US/09/989,789
; CURRENT FILING DATE: 2002-03-25
; NUMBER OF SEQ ID NOS: 4085
; SOFTWARE: Patentin Ver. 2.0
; SEQ ID NO 2941
; LENGTH: 7
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: example ZFP
US-09-989-789-2941

Query Match
Best Local Similarity 100.0%; Score 36; DB 9; Length 7;
Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 RSDHLSR 7
Db 1 RSDHLSR 7

RESULT 67
US-09-989-789-2961
; Sequence 2961, Application US/09989789
; Patent No. US2002006379A1
; GENERAL INFORMATION:
; APPLICANT: LIU, Qiang
; TITLE OF INVENTION: POSITION DEPENDENT RECOGNITION OF GNN NUCLEOTIDE
; FILE REFERENCE: 8325-0011.20 / S11-US2
; CURRENT APPLICATION NUMBER: US/09/989,789
; CURRENT FILING DATE: 2002-03-25
; NUMBER OF SEQ ID NOS: 4085
; SOFTWARE: Patentin Ver. 2.0
; SEQ ID NO 2961
; LENGTH: 7
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: example ZFP
US-09-989-789-2961

Query Match
Best Local Similarity 100.0%; Score 36; DB 9; Length 7;
Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 RSDHLSR 7
Db 1 RSDHLSR 7

RESULT 68
US-09-989-789-2965
; Sequence 2965, Application US/09989789
; Patent No. US2002006379A1
; GENERAL INFORMATION:
; APPLICANT: LIU, Qiang
; TITLE OF INVENTION: POSITION DEPENDENT RECOGNITION OF GNN NUCLEOTIDE
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; TITLE OF INVENTION: TRIPLETS BY ZINC FINGERS
; FILE REFERENCE: 8325-0011.20 / S11-US2
; CURRENT APPLICATION NUMBER: US/09/989,789
; CURRENT FILING DATE: 2002-03-25
; NUMBER OF SEQ ID NOS: 4085
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 2965
; LENGTH: 7
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: example ZFP
US-09-989-789-2965

Query Match
Best Local Similarity 100.0%; Score 36; DB 9; Length 7;
Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 RSDHLSR 7
Db 1 RSDHLSR 7

RESULT 69
US-09-989-789-2985
; Sequence 2985; Application US/09989789
; Patent No. US2002063379A1
; GENERAL INFORMATION:
; APPLICANT: LIU, Qiang
; TITLE OF INVENTION: POSITION DEPENDENT RECOGNITION OF GNN NUCLEOTIDE
; FILE REFERENCE: 8325-0011.20 / S11-US2
; CURRENT APPLICATION NUMBER: US/09/989,789
; CURRENT FILING DATE: 2002-03-25
; NUMBER OF SEQ ID NOS: 4085
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 2985
; LENGTH: 7
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: example ZFP
US-09-989-789-2985

Query Match
Best Local Similarity 100.0%; Score 36; DB 9; Length 7;
Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 RSDHLSR 7
Db 1 RSDHLSR 7

RESULT 70
US-09-989-789-3002
; Sequence 3002; Application US/09989789
; Patent No. US2002063379A1
; GENERAL INFORMATION:
; APPLICANT: LIU, Qiang
; TITLE OF INVENTION: POSITION DEPENDENT RECOGNITION OF GNN NUCLEOTIDE
; FILE REFERENCE: 8325-0011.20 / S11-US2
; CURRENT APPLICATION NUMBER: US/09/989,789
; CURRENT FILING DATE: 2002-03-25
; NUMBER OF SEQ ID NOS: 4085
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 3002
; LENGTH: 7
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: example ZFP
US-09-989-789-3002
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Query Match
Best Local Similarity 100.0%; Score 36; DB 9; Length 7;
Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 RSDHLSR 7
Db 1 RSDHLSR 7

RESULT 71
US-09-989-789-3116
; Sequence 3116; Application US/09989789
; Patent No. US2002063379A1
; GENERAL INFORMATION:
; APPLICANT: LIU, Qiang
; TITLE OF INVENTION: POSITION DEPENDENT RECOGNITION OF GNN NUCLEOTIDE
; FILE REFERENCE: 8325-0011.20 / S11-US2
; CURRENT APPLICATION NUMBER: US/09/989,789
; CURRENT FILING DATE: 2002-03-25
; NUMBER OF SEQ ID NOS: 4085
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 3116
; LENGTH: 7
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: example ZFP
US-09-989-789-3116

Query Match
Best Local Similarity 100.0%; Score 36; DB 9; Length 7;
Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 RSDHLSR 7
Db 1 RSDHLSR 7

RESULT 72
US-09-989-789-3117
; Sequence 3117; Application US/09989789
; Patent No. US2002063379A1
; GENERAL INFORMATION:
; APPLICANT: LIU, Qiang
; TITLE OF INVENTION: POSITION DEPENDENT RECOGNITION OF GNN NUCLEOTIDE
; FILE REFERENCE: 8325-0011.20 / S11-US2
; CURRENT APPLICATION NUMBER: US/09/989,789
; CURRENT FILING DATE: 2002-03-25
; NUMBER OF SEQ ID NOS: 4085
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 3117
; LENGTH: 7
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: example ZFP
US-09-989-789-3117

Query Match
Best Local Similarity 100.0%; Score 36; DB 9; Length 7;
Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 RSDHLSR 7
Db 1 RSDHLSR 7

RESULT 73
US-09-989-789-3155
; Sequence 3155; Application US/09989789
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Patent No. US20020063379A1
; GENERAL INFORMATION:
; APPLICANT: LIU, Qiang
; TITLE OF INVENTION: POSITION DEPENDENT RECOGNITION OF GNN NUCLEOTIDE
; FILE REFERENCE: 8325-0011.20 / S11-US2
; CURRENT APPLICATION NUMBER: US/09/989,789
; CURRENT FILING DATE: 2002-03-25
; NUMBER OF SEQ ID NOS: 4085
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 3155
; LENGTH: 7
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: example ZFP
US-09-989-789-3155

Query Match
Best Local Similarity 100.0%; Score 36; DB 9; Length 7;
Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 RSDHLSR 7
Db 1 RSDHLSR 7

RESULT 74
US-09-989-789-3156
; Sequence 3156, Application US/09989789
; Patent No. US20020063379A1
; GENERAL INFORMATION:
; APPLICANT: LIU, Qiang
; TITLE OF INVENTION: POSITION DEPENDENT RECOGNITION OF GNN NUCLEOTIDE
; FILE REFERENCE: 8325-0011.20 / S11-US2
; CURRENT APPLICATION NUMBER: US/09/989,789
; CURRENT FILING DATE: 2002-03-25
; NUMBER OF SEQ ID NOS: 4085
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 3156
; LENGTH: 7
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: example ZFP
US-09-989-789-3156

Query Match
Best Local Similarity 100.0%; Score 36; DB 9; Length 7;
Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 RSDHLSR 7
Db 1 RSDHLSR 7

RESULT 75
US-09-989-789-3580
; Sequence 3580, Application US/09989789
; Patent No. US20020063379A1
; GENERAL INFORMATION:
; APPLICANT: LIU, Qiang
; TITLE OF INVENTION: POSITION DEPENDENT RECOGNITION OF GNN NUCLEOTIDE
; FILE REFERENCE: 8325-0011.20 / S11-US2
; CURRENT APPLICATION NUMBER: US/09/989,789
; CURRENT FILING DATE: 2002-03-25
; NUMBER OF SEQ ID NOS: 4085
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 3580
; LENGTH: 7
; TYPE: PRT
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ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: example ZFP
US-09-989-789-3580

Query Match
Best Local Similarity 100.0%; Score 36; DB 9; Length 7;
Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 RSDHLSR 7
Db 1 RSDHLSR 7

RESULT 76
US-09-989-789-3581
; Sequence 3581, Application US/09989789
; Patent No. US20020063379A1
; GENERAL INFORMATION:
; APPLICANT: LIU, Qiang
; TITLE OF INVENTION: POSITION DEPENDENT RECOGNITION OF GNN NUCLEOTIDE
; FILE REFERENCE: 8325-0011.20 / S11-US2
; CURRENT APPLICATION NUMBER: US/09/989,789
; CURRENT FILING DATE: 2002-03-25
; NUMBER OF SEQ ID NOS: 4085
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 3581
; LENGTH: 7
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: example ZFP
US-09-989-789-3581

Query Match
Best Local Similarity 100.0%; Score 36; DB 9; Length 7;
Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 RSDHLSR 7
Db 1 RSDHLSR 7

RESULT 77
US-09-989-789-3608
; Sequence 3608, Application US/09989789
; Patent No. US20020063379A1
; GENERAL INFORMATION:
; APPLICANT: LIU, Qiang
; TITLE OF INVENTION: POSITION DEPENDENT RECOGNITION OF GNN NUCLEOTIDE
; FILE REFERENCE: 8325-0011.20 / S11-US2
; CURRENT APPLICATION NUMBER: US/09/989,789
; CURRENT FILING DATE: 2002-03-25
; NUMBER OF SEQ ID NOS: 4085
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 3608
; LENGTH: 7
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: example ZFP
US-09-989-789-3608

Query Match
Best Local Similarity 100.0%; Score 36; DB 9; Length 7;
Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 RSDHLSR 7
Db 1 RSDHLSR 7
```

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RESULT 78
US-09-989-789-3623
; Sequence 3623, Application US/09989789
; Patent No. US20020063379A1
; GENERAL INFORMATION:
; APPLICANT: LIU, Qiang
; TITLE OF INVENTION: POSITION DEPENDENT RECOGNITION OF GNN NUCLEOTIDE
; FILE REFERENCE: 8325-0011.20 / S11-US2
; CURRENT APPLICATION NUMBER: US/09/989,789
; CURRENT FILING DATE: 2002-03-25
; NUMBER OF SEQ ID NOS: 4085
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 3623
; LENGTH: 7
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: example ZFP
US-09-989-789-3623

Query Match
Best Local Similarity 100.0%; Score 36; DB 9; Length 7;
Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 RSDHLR 7
Db 1 RSDHLR 7

RESULT 79
US-09-989-789-3624
; Sequence 3624, Application US/09989789
; Patent No. US20020063379A1
; GENERAL INFORMATION:
; APPLICANT: LIU, Qiang
; TITLE OF INVENTION: POSITION DEPENDENT RECOGNITION OF GNN NUCLEOTIDE
; FILE REFERENCE: 8325-0011.20 / S11-US2
; CURRENT APPLICATION NUMBER: US/09/989,789
; CURRENT FILING DATE: 2002-03-25
; NUMBER OF SEQ ID NOS: 4085
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 3624
; LENGTH: 7
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: example ZFP
US-09-989-789-3624

Query Match
Best Local Similarity 100.0%; Score 36; DB 9; Length 7;
Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 RSDHLR 7
Db 1 RSDHLR 7

RESULT 80
US-09-989-789-3625
; Sequence 3625, Application US/09989789
; Patent No. US20020063379A1
; GENERAL INFORMATION:
; APPLICANT: LIU, Qiang
; TITLE OF INVENTION: POSITION DEPENDENT RECOGNITION OF GNN NUCLEOTIDE
; FILE REFERENCE: 8325-0011.20 / S11-US2
; CURRENT APPLICATION NUMBER: US/09/989,789
; CURRENT FILING DATE: 2002-03-25
; NUMBER OF SEQ ID NOS: 4085
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; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 3625
; LENGTH: 7
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: example ZFP
US-09-989-789-3625

Query Match
Best Local Similarity 100.0%; Score 36; DB 9; Length 7;
Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 RSDHLR 7
Db 1 RSDHLR 7

RESULT 81
US-09-989-789-3636
; Sequence 3636, Application US/09989789
; Patent No. US20020063379A1
; GENERAL INFORMATION:
; APPLICANT: LIU, Qiang
; TITLE OF INVENTION: POSITION DEPENDENT RECOGNITION OF GNN NUCLEOTIDE
; FILE REFERENCE: 8325-0011.20 / S11-US2
; CURRENT APPLICATION NUMBER: US/09/989,789
; CURRENT FILING DATE: 2002-03-25
; NUMBER OF SEQ ID NOS: 4085
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 3636
; LENGTH: 7
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: example ZFP
US-09-989-789-3636

Query Match
Best Local Similarity 100.0%; Score 36; DB 9; Length 7;
Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 RSDHLR 7
Db 1 RSDHLR 7

RESULT 82
US-09-989-789-3637
; Sequence 3637, Application US/09989789
; Patent No. US20020063379A1
; GENERAL INFORMATION:
; APPLICANT: LIU, Qiang
; TITLE OF INVENTION: POSITION DEPENDENT RECOGNITION OF GNN NUCLEOTIDE
; FILE REFERENCE: 8325-0011.20 / S11-US2
; CURRENT APPLICATION NUMBER: US/09/989,789
; CURRENT FILING DATE: 2002-03-25
; NUMBER OF SEQ ID NOS: 4085
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 3637
; LENGTH: 7
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: example ZFP
US-09-989-789-3637

Query Match
Best Local Similarity 100.0%; Score 36; DB 9; Length 7;
Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
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Cy 1 RSDHLSR 7
 Db 1 RSDHLSR 7

RESULT 83
 US-09-989-789-3648
 ; Sequence 3648, Application US/09989789
 ; Patent No. US20020063379A1
 ; GENERAL INFORMATION:

APPLICANT: LIU, Qiang
 TITLE OF INVENTION: POSITION DEPENDENT RECOGNITION OF GNN NUCLEOTIDE
 FILE REFERENCE: 8325-0011.20 / S11-US2
 CURRENT APPLICATION NUMBER: US/09/989,789
 CURRENT FILING DATE: 2002-03-25
 NUMBER OF SEQ ID NOS: 4085
 SOFTWARE: PatentIn Ver. 2.0
 SEQ ID NO 3648
 LENGTH: 7
 TYPE: PRT
 ORGANISM: Artificial Sequence
 FEATURE:
 OTHER INFORMATION: Description of Artificial Sequence: example ZFP

US-09-989-789-3648

Query Match 100.0%; Score 36; DB 9; Length 7;
 Best Local Similarity 100.0%; Pred. No. 7e+05;
 Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Cy 1 RSDHLSR 7
 Db 1 RSDHLSR 7

RESULT 84
 US-09-989-789-3649
 ; Sequence 3649, Application US/09989789
 ; Patent No. US20020063379A1
 ; GENERAL INFORMATION:

APPLICANT: LIU, Qiang
 TITLE OF INVENTION: POSITION DEPENDENT RECOGNITION OF GNN NUCLEOTIDE
 FILE REFERENCE: 8325-0011.20 / S11-US2
 CURRENT APPLICATION NUMBER: US/09/989,789
 CURRENT FILING DATE: 2002-03-25
 NUMBER OF SEQ ID NOS: 4085
 SOFTWARE: PatentIn Ver. 2.0
 SEQ ID NO 3649
 LENGTH: 7
 TYPE: PRT
 ORGANISM: Artificial Sequence
 FEATURE:
 OTHER INFORMATION: Description of Artificial Sequence: example ZFP

US-09-989-789-3649

Query Match 100.0%; Score 36; DB 9; Length 7;
 Best Local Similarity 100.0%; Pred. No. 7e+05;
 Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Cy 1 RSDHLSR 7
 Db 1 RSDHLSR 7

RESULT 85
 US-09-989-789-3655
 ; Sequence 3655, Application US/09989789
 ; Patent No. US20020063379A1
 ; GENERAL INFORMATION:

APPLICANT: LIU, Qiang
 TITLE OF INVENTION: POSITION DEPENDENT RECOGNITION OF GNN NUCLEOTIDE
 FILE REFERENCE: 8325-0011.20 / S11-US2
 CURRENT APPLICATION NUMBER: US/09/989,789
 CURRENT FILING DATE: 2002-03-25
 NUMBER OF SEQ ID NOS: 4085
 SOFTWARE: PatentIn Ver. 2.0
 SEQ ID NO 3655
 LENGTH: 7
 TYPE: PRT
 ORGANISM: Artificial Sequence
 FEATURE:
 OTHER INFORMATION: Description of Artificial Sequence: example ZFP

FILE REFERENCE: 8325-0011.20 / S11-US2
 CURRENT APPLICATION NUMBER: US/09/989,789
 CURRENT FILING DATE: 2002-03-25
 NUMBER OF SEQ ID NOS: 4085
 SOFTWARE: PatentIn Ver. 2.0
 SEQ ID NO 3655
 LENGTH: 7
 TYPE: PRT
 ORGANISM: Artificial Sequence
 FEATURE:
 OTHER INFORMATION: Description of Artificial Sequence: example ZFP

US-09-989-789-3655

Query Match 100.0%; Score 36; DB 9; Length 7;
 Best Local Similarity 100.0%; Pred. No. 7e+05;
 Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Cy 1 RSDHLSR 7
 Db 1 RSDHLSR 7

RESULT 86
 US-09-989-789-3656
 ; Sequence 3656, Application US/09989789
 ; Patent No. US20020063379A1
 ; GENERAL INFORMATION:

APPLICANT: LIU, Qiang
 TITLE OF INVENTION: POSITION DEPENDENT RECOGNITION OF GNN NUCLEOTIDE
 FILE REFERENCE: 8325-0011.20 / S11-US2
 CURRENT APPLICATION NUMBER: US/09/989,789
 CURRENT FILING DATE: 2002-03-25
 NUMBER OF SEQ ID NOS: 4085
 SOFTWARE: PatentIn Ver. 2.0
 SEQ ID NO 3656
 LENGTH: 7
 TYPE: PRT
 ORGANISM: Artificial Sequence
 FEATURE:
 OTHER INFORMATION: Description of Artificial Sequence: example ZFP

US-09-989-789-3656

Query Match 100.0%; Score 36; DB 9; Length 7;
 Best Local Similarity 100.0%; Pred. No. 7e+05;
 Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Cy 1 RSDHLSR 7
 Db 1 RSDHLSR 7

RESULT 87
 US-09-989-789-3658
 ; Sequence 3658, Application US/09989789
 ; Patent No. US20020063379A1
 ; GENERAL INFORMATION:

APPLICANT: LIU, Qiang
 TITLE OF INVENTION: POSITION DEPENDENT RECOGNITION OF GNN NUCLEOTIDE
 FILE REFERENCE: 8325-0011.20 / S11-US2
 CURRENT APPLICATION NUMBER: US/09/989,789
 CURRENT FILING DATE: 2002-03-25
 NUMBER OF SEQ ID NOS: 4085
 SOFTWARE: PatentIn Ver. 2.0
 SEQ ID NO 3658
 LENGTH: 7
 TYPE: PRT
 ORGANISM: Artificial Sequence
 FEATURE:
 OTHER INFORMATION: Description of Artificial Sequence: example ZFP

US-09-989-789-3658

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Query Match          100.0%; Score 36; DB 9; Length 7;
Best Local Similarity 100.0%; Pred. No. 7e+05;
Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 RSDHLSR 7
DB 1 RSDHLSR 7

RESULT 88
US-09-989-789-3672
; Sequence 3672, Application US/09989789
; Patent No. US20020063379A1
; GENERAL INFORMATION:
; APPLICANT: LIU, Qiang
; TITLE OF INVENTION: POSITION DEPENDENT RECOGNITION OF GNN NUCLEOTIDE
; FILE REFERENCE: 8325-0011.20 / S11-US2
; CURRENT APPLICATION NUMBER: US/09/989,789
; CURRENT FILING DATE: 2002-03-25
; NUMBER OF SEQ ID NOS: 4085
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 3672
; LENGTH: 7
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: example ZFP
US-09-989-789-3672

Query Match          100.0%; Score 36; DB 9; Length 7;
Best Local Similarity 100.0%; Pred. No. 7e+05;
Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 RSDHLSR 7
DB 1 RSDHLSR 7

RESULT 89
US-09-989-789-3673
; Sequence 3673, Application US/09989789
; Patent No. US20020063379A1
; GENERAL INFORMATION:
; APPLICANT: LIU, Qiang
; TITLE OF INVENTION: POSITION DEPENDENT RECOGNITION OF GNN NUCLEOTIDE
; FILE REFERENCE: 8325-0011.20 / S11-US2
; CURRENT APPLICATION NUMBER: US/09/989,789
; CURRENT FILING DATE: 2002-03-25
; NUMBER OF SEQ ID NOS: 4085
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 3673
; LENGTH: 7
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: example ZFP
US-09-989-789-3673

Query Match          100.0%; Score 36; DB 9; Length 7;
Best Local Similarity 100.0%; Pred. No. 7e+05;
Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 RSDHLSR 7
DB 1 RSDHLSR 7

RESULT 90
US-09-989-789-3707
; Sequence 3707, Application US/09989789
; Patent No. US20020063379A1
; GENERAL INFORMATION:
; APPLICANT: LIU, Qiang
; TITLE OF INVENTION: POSITION DEPENDENT RECOGNITION OF GNN NUCLEOTIDE
; FILE REFERENCE: 8325-0011.20 / S11-US2
; CURRENT APPLICATION NUMBER: US/09/989,789
; CURRENT FILING DATE: 2002-03-25
; NUMBER OF SEQ ID NOS: 4085
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 3707
; LENGTH: 7
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: example ZFP
US-09-989-789-3707

Query Match          100.0%; Score 36; DB 9; Length 7;
Best Local Similarity 100.0%; Pred. No. 7e+05;
Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 RSDHLSR 7
DB 1 RSDHLSR 7

RESULT 91
US-09-989-789-3708
; Sequence 3708, Application US/09989789
; Patent No. US20020063379A1
; GENERAL INFORMATION:
; APPLICANT: LIU, Qiang
; TITLE OF INVENTION: POSITION DEPENDENT RECOGNITION OF GNN NUCLEOTIDE
; FILE REFERENCE: 8325-0011.20 / S11-US2
; CURRENT APPLICATION NUMBER: US/09/989,789
; CURRENT FILING DATE: 2002-03-25
; NUMBER OF SEQ ID NOS: 4085
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 3708
; LENGTH: 7
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: example ZFP
US-09-989-789-3708

Query Match          100.0%; Score 36; DB 9; Length 7;
Best Local Similarity 100.0%; Pred. No. 7e+05;
Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 RSDHLSR 7
DB 1 RSDHLSR 7

RESULT 92
US-09-989-789-3800
; Sequence 3800, Application US/09989789
; Patent No. US20020063379A1
; GENERAL INFORMATION:
; APPLICANT: LIU, Qiang
; TITLE OF INVENTION: POSITION DEPENDENT RECOGNITION OF GNN NUCLEOTIDE
; FILE REFERENCE: 8325-0011.20 / S11-US2
; CURRENT APPLICATION NUMBER: US/09/989,789
; CURRENT FILING DATE: 2002-03-25
; NUMBER OF SEQ ID NOS: 4085
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 3800
; LENGTH: 7
; TYPE: PRT
; ORGANISM: Artificial Sequence
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FEATURE:
OTHER INFORMATION: Description of Artificial Sequence: example ZFP
US-09-989-789-3800

Query Match
Best Local Similarity 100.0%; Score 36; DB 9; Length 7;
Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 RSDHLSR 7
Db 1 RSDHLSR 7

RESULT 93
US-09-989-789-3802
Sequence 3802, Application US/09989789
Patent No. US20020063379A1
GENERAL INFORMATION:
APPLICANT: LIU, Qiang

TITLE OF INVENTION: POSITION DEPENDENT RECOGNITION OF GNN NUCLEOTIDE
FILE REFERENCE: 8325-0011.20 / S11-US2
CURRENT APPLICATION NUMBER: US/09/989,789
CURRENT FILING DATE: 2002-03-25
NUMBER OF SEQ ID NOS: 4085
SOFTWARE: PatentIn Ver. 2.0
SEQ ID NO 3802
LENGTH: 7
TYPE: PRT
ORGANISM: Artificial Sequence
FEATURE:

OTHER INFORMATION: Description of Artificial Sequence: example ZFP
US-09-989-789-3802

Query Match
Best Local Similarity 100.0%; Score 36; DB 9; Length 7;
Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 RSDHLSR 7
Db 1 RSDHLSR 7

RESULT 94
US-09-989-789-3803
Sequence 3803, Application US/09989789
Patent No. US20020063379A1
GENERAL INFORMATION:
APPLICANT: LIU, Qiang

TITLE OF INVENTION: POSITION DEPENDENT RECOGNITION OF GNN NUCLEOTIDE
FILE REFERENCE: 8325-0011.20 / S11-US2
CURRENT APPLICATION NUMBER: US/09/989,789
CURRENT FILING DATE: 2002-03-25
NUMBER OF SEQ ID NOS: 4085
SOFTWARE: PatentIn Ver. 2.0
SEQ ID NO 3803
LENGTH: 7
TYPE: PRT
ORGANISM: Artificial Sequence
FEATURE:

OTHER INFORMATION: Description of Artificial Sequence: example ZFP
US-09-989-789-3803

Query Match
Best Local Similarity 100.0%; Score 36; DB 9; Length 7;
Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 RSDHLSR 7
Db 1 RSDHLSR 7

RESULT 95
US-09-989-789-3814
Sequence 3814, Application US/09989789
Patent No. US20020063379A1
GENERAL INFORMATION:
APPLICANT: LIU, Qiang

TITLE OF INVENTION: POSITION DEPENDENT RECOGNITION OF GNN NUCLEOTIDE
FILE REFERENCE: 8325-0011.20 / S11-US2
CURRENT APPLICATION NUMBER: US/09/989,789
CURRENT FILING DATE: 2002-03-25
NUMBER OF SEQ ID NOS: 4085
SOFTWARE: PatentIn Ver. 2.0
SEQ ID NO 3814
LENGTH: 7
TYPE: PRT
ORGANISM: Artificial Sequence
FEATURE:

OTHER INFORMATION: Description of Artificial Sequence: example ZFP
US-09-989-789-3814

Query Match
Best Local Similarity 100.0%; Score 36; DB 9; Length 7;
Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 RSDHLSR 7
Db 1 RSDHLSR 7

RESULT 96
US-09-989-789-3815
Sequence 3815, Application US/09989789
Patent No. US20020063379A1
GENERAL INFORMATION:
APPLICANT: LIU, Qiang

TITLE OF INVENTION: POSITION DEPENDENT RECOGNITION OF GNN NUCLEOTIDE
FILE REFERENCE: 8325-0011.20 / S11-US2
CURRENT APPLICATION NUMBER: US/09/989,789
CURRENT FILING DATE: 2002-03-25
NUMBER OF SEQ ID NOS: 4085
SOFTWARE: PatentIn Ver. 2.0
SEQ ID NO 3815
LENGTH: 7
TYPE: PRT
ORGANISM: Artificial Sequence
FEATURE:

OTHER INFORMATION: Description of Artificial Sequence: example ZFP
US-09-989-789-3815

Query Match
Best Local Similarity 100.0%; Score 36; DB 9; Length 7;
Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 RSDHLSR 7
Db 1 RSDHLSR 7

RESULT 97
US-09-989-789-3816
Sequence 3816, Application US/09989789
Patent No. US20020063379A1
GENERAL INFORMATION:
APPLICANT: LIU, Qiang

TITLE OF INVENTION: POSITION DEPENDENT RECOGNITION OF GNN NUCLEOTIDE
FILE REFERENCE: 8325-0011.20 / S11-US2
CURRENT APPLICATION NUMBER: US/09/989,789
CURRENT FILING DATE: 2002-03-25
NUMBER OF SEQ ID NOS: 4085
SOFTWARE: PatentIn Ver. 2.0

SEQ ID NO 3816
LENGTH: 7
TYPE: PRT
ORGANISM: Artificial Sequence
FEATURE:
OTHER INFORMATION: Description of Artificial Sequence: example ZFP
US-09-989-789-3816

Query Match
Best Local Similarity 100.0%; Score 36; DB 9; Length 7;
Pred. No. 7e+05;
Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 RSDHLR 7
Db 1 RSDHLR 7

RESULT 98
US-09-989-789-3859
Sequence 3859, Application US/09989789
Patent No. US2002006379A1
GENERAL INFORMATION:
APPLICANT: LIU, Qiang
TITLE OF INVENTION: POSITION DEPENDENT RECOGNITION OF GNN NUCLEOTIDE
FILE REFERENCE: 8325-0011.20 / S11-US2
CURRENT APPLICATION NUMBER: US/09/989,789
CURRENT FILING DATE: 2002-03-25
NUMBER OF SEQ ID NOS: 4085
SOFTWARE: PatentIn Ver. 2.0
SEQ ID NO 3859
LENGTH: 7
TYPE: PRT
ORGANISM: Artificial Sequence
FEATURE:
OTHER INFORMATION: Description of Artificial Sequence: example ZFP
US-09-989-789-3859

Query Match
Best Local Similarity 100.0%; Score 36; DB 9; Length 7;
Pred. No. 7e+05;
Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 RSDHLR 7
Db 1 RSDHLR 7

RESULT 99
US-09-989-789-3860
Sequence 3860, Application US/09989789
Patent No. US2002006379A1
GENERAL INFORMATION:
APPLICANT: LIU, Qiang
TITLE OF INVENTION: POSITION DEPENDENT RECOGNITION OF GNN NUCLEOTIDE
FILE REFERENCE: 8325-0011.20 / S11-US2
CURRENT APPLICATION NUMBER: US/09/989,789
CURRENT FILING DATE: 2002-03-25
NUMBER OF SEQ ID NOS: 4085
SOFTWARE: PatentIn Ver. 2.0
SEQ ID NO 3860
LENGTH: 7
TYPE: PRT
ORGANISM: Artificial Sequence
FEATURE:
OTHER INFORMATION: Description of Artificial Sequence: example ZFP
US-09-989-789-3860

Query Match
Best Local Similarity 100.0%; Score 36; DB 9; Length 7;
Pred. No. 7e+05;
Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 RSDHLR 7

Db 1 RSDHLR 7

RESULT 100
US-09-989-789-3881
Sequence 3881, Application US/09989789
Patent No. US2002006379A1
GENERAL INFORMATION:
APPLICANT: LIU, Qiang
TITLE OF INVENTION: POSITION DEPENDENT RECOGNITION OF GNN NUCLEOTIDE
FILE REFERENCE: 8325-0011.20 / S11-US2
CURRENT APPLICATION NUMBER: US/09/989,789
CURRENT FILING DATE: 2002-03-25
NUMBER OF SEQ ID NOS: 4085
SOFTWARE: PatentIn Ver. 2.0
SEQ ID NO 3881
LENGTH: 7
TYPE: PRT
ORGANISM: Artificial Sequence
FEATURE:
OTHER INFORMATION: Description of Artificial Sequence: example ZFP
US-09-989-789-3881

Query Match
Best Local Similarity 100.0%; Score 36; DB 9; Length 7;
Pred. No. 7e+05;
Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 RSDHLR 7
Db 1 RSDHLR 7

RESULT 101
US-09-989-789-3882
Sequence 3882, Application US/09989789
Patent No. US2002006379A1
GENERAL INFORMATION:
APPLICANT: LIU, Qiang
TITLE OF INVENTION: POSITION DEPENDENT RECOGNITION OF GNN NUCLEOTIDE
FILE REFERENCE: 8325-0011.20 / S11-US2
CURRENT APPLICATION NUMBER: US/09/989,789
CURRENT FILING DATE: 2002-03-25
NUMBER OF SEQ ID NOS: 4085
SOFTWARE: PatentIn Ver. 2.0
SEQ ID NO 3882
LENGTH: 7
TYPE: PRT
ORGANISM: Artificial Sequence
FEATURE:
OTHER INFORMATION: Description of Artificial Sequence: example ZFP
US-09-989-789-3882

Query Match
Best Local Similarity 100.0%; Score 36; DB 9; Length 7;
Pred. No. 7e+05;
Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 RSDHLR 7
Db 1 RSDHLR 7

RESULT 102
US-09-989-789-3890
Sequence 3890, Application US/09989789
Patent No. US2002006379A1
GENERAL INFORMATION:
APPLICANT: LIU, Qiang
TITLE OF INVENTION: POSITION DEPENDENT RECOGNITION OF GNN NUCLEOTIDE
FILE REFERENCE: 8325-0011.20 / S11-US2

CURRENT APPLICATION NUMBER: US/09/989,789
CURRENT FILING DATE: 2002-03-25
NUMBER OF SEQ ID NOS: 4085
SOFTWARE: Patentln Ver. 2.0
SEQ ID NO 3890
LENGTH: 7
TYPE: PRT
ORGANISM: Artificial Sequence
FEATURE:
OTHER INFORMATION: Description of Artificial Sequence: example ZFP
US-09-989-789-3890

Query Match 100.0%; Score 36; DB 9; Length 7;
Best Local Similarity 100.0%; Pred. No. 7e+05;
Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
QY 1 RSDHLR 7
DB 1 RSDHLR 7

RESULT 103
US-09-989-789-3892
Sequence 3892, Application US/09989789
Patent No. US2002063379A1
GENERAL INFORMATION:
APPLICANT: Liu, Qiang
TITLE OF INVENTION: POSITION DEPENDENT RECOGNITION OF GNN NUCLEOTIDE
FILE REFERENCE: 8325-0011.20 / S11-US2
CURRENT APPLICATION NUMBER: US/09/989,789
CURRENT FILING DATE: 2002-03-25
NUMBER OF SEQ ID NOS: 4085
SOFTWARE: Patentln Ver. 2.0
SEQ ID NO 3892
LENGTH: 7
TYPE: PRT
ORGANISM: Artificial Sequence
FEATURE:
OTHER INFORMATION: Description of Artificial Sequence: example ZFP
US-09-989-789-3892

Query Match 100.0%; Score 36; DB 9; Length 7;
Best Local Similarity 100.0%; Pred. No. 7e+05;
Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 RSDHLR 7
DB 1 RSDHLR 7

RESULT 104
US-09-989-789-3951
Sequence 3951, Application US/09989789
Patent No. US2002063379A1
GENERAL INFORMATION:
APPLICANT: Liu, Qiang
TITLE OF INVENTION: POSITION DEPENDENT RECOGNITION OF GNN NUCLEOTIDE
FILE REFERENCE: 8325-0011.20 / S11-US2
CURRENT APPLICATION NUMBER: US/09/989,789
CURRENT FILING DATE: 2002-03-25
NUMBER OF SEQ ID NOS: 4085
SOFTWARE: Patentln Ver. 2.0
SEQ ID NO 3951
LENGTH: 7
TYPE: PRT
ORGANISM: Artificial Sequence
FEATURE:
OTHER INFORMATION: Description of Artificial Sequence: example ZFP
US-09-989-789-3951

Query Match 100.0%; Score 36; DB 9; Length 7;

Best Local Similarity 100.0%; Pred. No. 7e+05;
Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 RSDHLR 7
DB 1 RSDHLR 7

RESULT 105
US-09-989-789-3952
Sequence 3952, Application US/09989789
Patent No. US2002063379A1
GENERAL INFORMATION:
APPLICANT: Liu, Qiang
TITLE OF INVENTION: POSITION DEPENDENT RECOGNITION OF GNN NUCLEOTIDE
FILE REFERENCE: 8325-0011.20 / S11-US2
CURRENT APPLICATION NUMBER: US/09/989,789
CURRENT FILING DATE: 2002-03-25
NUMBER OF SEQ ID NOS: 4085
SOFTWARE: Patentln Ver. 2.0
SEQ ID NO 3952
LENGTH: 7
TYPE: PRT
ORGANISM: Artificial Sequence
FEATURE:
OTHER INFORMATION: Description of Artificial Sequence: example ZFP
US-09-989-789-3952

Query Match 100.0%; Score 36; DB 9; Length 7;
Best Local Similarity 100.0%; Pred. No. 7e+05;
Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 RSDHLR 7
DB 1 RSDHLR 7

RESULT 106
US-09-989-789-3999
Sequence 3999, Application US/09989789
Patent No. US2002063379A1
GENERAL INFORMATION:
APPLICANT: Liu, Qiang
TITLE OF INVENTION: POSITION DEPENDENT RECOGNITION OF GNN NUCLEOTIDE
FILE REFERENCE: 8325-0011.20 / S11-US2
CURRENT APPLICATION NUMBER: US/09/989,789
CURRENT FILING DATE: 2002-03-25
NUMBER OF SEQ ID NOS: 4085
SOFTWARE: Patentln Ver. 2.0
SEQ ID NO 3999
LENGTH: 7
TYPE: PRT
ORGANISM: Artificial Sequence
FEATURE:
OTHER INFORMATION: Description of Artificial Sequence: example ZFP
US-09-989-789-3999

Query Match 100.0%; Score 36; DB 9; Length 7;
Best Local Similarity 100.0%; Pred. No. 7e+05;
Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 RSDHLR 7
DB 1 RSDHLR 7

RESULT 107
US-09-989-789-4006
Sequence 4006, Application US/09989789
Patent No. US2002063379A1
GENERAL INFORMATION:

APPLICANT: Liu, Qiang
TITLE OF INVENTION: POSITION DEPENDENT RECOGNITION OF GNN NUCLEOTIDE
FILE REFERENCE: 8325-0011.20 / S11-US2
CURRENT FILING DATE: 2002-03-25
NUMBER OF SEQ ID NOS: 4085
SOFTWARE: Patent In Ver. 2.0
SEQ ID NO 4006
LENGTH: 7
TYPE: PRT
ORGANISM: Artificial Sequence
FEATURE:
OTHER INFORMATION: Description of Artificial Sequence: example ZFP
US-09-989-789-4006

Query Match 100.0%; Score 36; DB 9; Length 7;
Best Local Similarity 100.0%; Pred. No. 7e+05;
Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 RSDHLR 7
Db 1 RSDHLR 7

RESULT 108
US-09-844-508-5
Sequence 5, Application US/09844508
Patent No. US20020115215A1
GENERAL INFORMATION:
APPLICANT: WOLFE, Alan P.
APPLICANT: COLLINGWOOD, Trevor
TITLE OF INVENTION: TARGETED MODIFICATION OF CHROMATIN STRUCTURE
FILE REFERENCE: 8325-0014 / S14-US1
CURRENT APPLICATION NUMBER: US/09/844,508
CURRENT FILING DATE: 2001-04-27
PRIOR APPLICATION NUMBER: 60/200,590
PRIOR FILING DATE: 2000-04-28
PRIOR APPLICATION NUMBER: 60/228,523
PRIOR FILING DATE: 2000-08-28
NUMBER OF SEQ ID NOS: 49
SOFTWARE: Patent In Ver. 2.0
SEQ ID NO 5
LENGTH: 7
TYPE: PRT
ORGANISM: Artificial Sequence
FEATURE:
OTHER INFORMATION: Description of Artificial Sequence: Veg 1 AA
US-09-844-508-5

Query Match 100.0%; Score 36; DB 10; Length 7;
Best Local Similarity 100.0%; Pred. No. 7e+05;
Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 RSDHLR 7
Db 1 RSDHLR 7

RESULT 109
US-09-731-558-14
Sequence 14, Application US/09731558
Patent No. US20020146591A1
GENERAL INFORMATION:
APPLICANT: Case, Casey Christopher
APPLICANT: Liu, Qiang
APPLICANT: Rebar, Edward J.
APPLICANT: Sangamo Biosciences, Inc.
TITLE OF INVENTION: Methods of Using Randomized Libraries of Zinc Finger
FILE REFERENCE: 019496-003210US
CURRENT APPLICATION NUMBER: US/09/731,558

CURRENT FILING DATE: 2000-12-06
PRIOR APPLICATION NUMBER: US 09/456,100
PRIOR FILING DATE: 1999-12-06
NUMBER OF SEQ ID NOS: 24
SOFTWARE: Patent In Ver. 2.1
SEQ ID NO 14
LENGTH: 7
TYPE: PRT
ORGANISM: Artificial Sequence
FEATURE:
OTHER INFORMATION: Description of Artificial Sequence: SBS3
US-09-731-558-14

Query Match 100.0%; Score 36; DB 10; Length 7;
Best Local Similarity 100.0%; Pred. No. 7e+05;
Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 RSDHLR 7
Db 1 RSDHLR 7

RESULT 110
US-09-846-033B-64
Sequence 64, Application US/09846033B
Publication No. US20030044404A1
GENERAL INFORMATION:
APPLICANT: Rebar, Edward
APPLICANT: Jamieson, Andrew
APPLICANT: Liu, Qiang
APPLICANT: Liu, Pei-Qi
APPLICANT: Wolfe, Alan
APPLICANT: Eisenberg, Stephen P.
APPLICANT: Jarvis, Eric
APPLICANT: Sangamo Biosciences, Inc.
TITLE OF INVENTION: Regulation of Angiogenesis with Zinc
FILE REFERENCE: 019496-005820US
CURRENT APPLICATION NUMBER: US/09/846,033B
CURRENT FILING DATE: 2001-04-30
PRIOR APPLICATION NUMBER: US 09/733,604
PRIOR FILING DATE: 2000-12-07
PRIOR APPLICATION NUMBER: US 09/736,083
PRIOR FILING DATE: 2000-12-12
NUMBER OF SEQ ID NOS: 252
SOFTWARE: FastSeq for Windows Version 3.0
SEQ ID NO 64
LENGTH: 7
TYPE: PRT
ORGANISM: Artificial Sequence
FEATURE:
OTHER INFORMATION: finger
US-09-846-033B-64

Query Match 100.0%; Score 36; DB 11; Length 7;
Best Local Similarity 100.0%; Pred. No. 7e+05;
Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 RSDHLR 7
Db 1 RSDHLR 7

RESULT 111
US-09-846-033B-68
Sequence 68, Application US/09846033B
Publication No. US20030044404A1
GENERAL INFORMATION:
APPLICANT: Rebar, Edward
APPLICANT: Jamieson, Andrew
APPLICANT: Liu, Qiang
APPLICANT: Liu, Pei-Qi

```

; APPLICANT: Wolfe, Alan
; APPLICANT: Eisenberg, Stephen P.
; APPLICANT: Jarvis, Eric
; APPLICANT: Sangamo Biosciences, Inc.
; TITLE OF INVENTION: Regulation of Angiogenesis with Zinc
; FILE REFERENCE: 019496-005820US
; CURRENT APPLICATION NUMBER: US/09/846,033B
; PRIOR FILING DATE: 2001-04-30
; PRIOR APPLICATION NUMBER: US 09/733,604
; PRIOR FILING DATE: 2000-12-07
; PRIOR APPLICATION NUMBER: US 09/736,083
; NUMBER OF SEQ ID NOS: 252
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO: 68
; LENGTH: 7
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: finger
US-09-846-033B-68
```

```

Query Match          100.0%; Score 36; DB 11; Length 7;
Best Local Similarity 100.0%; Pred. No. 7e+05;
Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
```

```
QY      1 RSDHLR 7
        |||||
Db      1 RSDHLR 7
```

```

RESULT 112
US-09-846-033B-91
; Sequence 91, Application US/09846033B
; Publication No. US20030044404A1
; GENERAL INFORMATION:
; APPLICANT: Rebar, Edward
; APPLICANT: Jamieson, Andrew
; APPLICANT: Liu, Qiang
; APPLICANT: Liu, Pei-Qi
; APPLICANT: Wolfe, Alan
; APPLICANT: Eisenberg, Stephen P.
; APPLICANT: Jarvis, Eric
; APPLICANT: Sangamo Biosciences, Inc.
; TITLE OF INVENTION: Regulation of Angiogenesis with Zinc
; FILE REFERENCE: 019496-005820US
; CURRENT APPLICATION NUMBER: US/09/846,033B
; PRIOR FILING DATE: 2001-04-30
; PRIOR APPLICATION NUMBER: US 09/733,604
; PRIOR FILING DATE: 2000-12-07
; PRIOR APPLICATION NUMBER: US 09/736,083
; NUMBER OF SEQ ID NOS: 252
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO: 91
; LENGTH: 7
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: finger
US-09-846-033B-91
```

```

Query Match          100.0%; Score 36; DB 11; Length 7;
Best Local Similarity 100.0%; Pred. No. 7e+05;
Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
```

```
QY      1 RSDHLR 7
        |||||
Db      1 RSDHLR 7
```

```

RESULT 113
US-09-846-033B-101
; Sequence 101, Application US/09846033B
; Publication No. US20030044404A1
; GENERAL INFORMATION:
; APPLICANT: Rebar, Edward
; APPLICANT: Jamieson, Andrew
; APPLICANT: Liu, Qiang
; APPLICANT: Liu, Pei-Qi
; APPLICANT: Wolfe, Alan
; APPLICANT: Eisenberg, Stephen P.
; APPLICANT: Jarvis, Eric
; APPLICANT: Sangamo Biosciences, Inc.
; TITLE OF INVENTION: Regulation of Angiogenesis with Zinc
; FILE REFERENCE: 019496-005820US
; CURRENT APPLICATION NUMBER: US/09/846,033B
; PRIOR FILING DATE: 2001-04-30
; PRIOR APPLICATION NUMBER: US 09/733,604
; PRIOR FILING DATE: 2000-12-07
; PRIOR APPLICATION NUMBER: US 09/736,083
; NUMBER OF SEQ ID NOS: 252
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO: 101
; LENGTH: 7
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: finger
US-09-846-033B-101
```

```

Query Match          100.0%; Score 36; DB 11; Length 7;
Best Local Similarity 100.0%; Pred. No. 7e+05;
Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
```

```
QY      1 RSDHLR 7
        |||||
Db      1 RSDHLR 7
```

```

RESULT 114
US-09-846-033B-102
; Sequence 102, Application US/09846033B
; Publication No. US20030044404A1
; GENERAL INFORMATION:
; APPLICANT: Rebar, Edward
; APPLICANT: Jamieson, Andrew
; APPLICANT: Liu, Qiang
; APPLICANT: Liu, Pei-Qi
; APPLICANT: Wolfe, Alan
; APPLICANT: Eisenberg, Stephen P.
; APPLICANT: Jarvis, Eric
; APPLICANT: Sangamo Biosciences, Inc.
; TITLE OF INVENTION: Regulation of Angiogenesis with Zinc
; FILE REFERENCE: 019496-005820US
; CURRENT APPLICATION NUMBER: US/09/846,033B
; PRIOR FILING DATE: 2001-04-30
; PRIOR APPLICATION NUMBER: US 09/733,604
; PRIOR FILING DATE: 2000-12-07
; PRIOR APPLICATION NUMBER: US 09/736,083
; NUMBER OF SEQ ID NOS: 252
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO: 102
; LENGTH: 7
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: finger
US-09-846-033B-102
```

Query Match 100.0%; Score 36; DB 11; Length 7;
Best Local Similarity 100.0%; Pred. No. 7e+05;
Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 RSDHLSR 7
Db 1 RSDHLSR 7

RESULT 115

US-09-846-033B-103
; Sequence 103, Application US/09846033B
; Publication No. US2003004404A1
; GENERAL INFORMATION:
; APPLICANT: Rebar, Edward
; APPLICANT: Jamieson, Andrew
; APPLICANT: Liu, Qiang
; APPLICANT: Liu, Pei-Qi
; APPLICANT: Wolfe, Alan
; APPLICANT: Eisenberg, Stephen P.
; APPLICANT: Jarvis, Eric
; APPLICANT: Sangamo Biosciences, Inc.
; TITLE OF INVENTION: Regulation of Angiogenesis with Zinc
; FILE REFERENCE: 019496-005820US
; CURRENT APPLICATION NUMBER: US/09/846,033B
; PRIOR FILING DATE: 2001-04-30
; PRIOR APPLICATION NUMBER: US 09/733,604
; PRIOR FILING DATE: 2000-12-07
; PRIOR APPLICATION NUMBER: US 09/736,083
; PRIOR FILING DATE: 2000-12-12
; SOFTWARE: FastSeq for Windows Version 3.0
; NUMBER OF SEQ ID NOS: 252
; SEQ ID NO 103
; LENGTH: 7
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: finger
US-09-846-033B-103

Query Match 100.0%; Score 36; DB 11; Length 7;
Best Local Similarity 100.0%; Pred. No. 7e+05;
Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 RSDHLSR 7
Db 1 RSDHLSR 7

RESULT 116

US-09-846-033B-104
; Sequence 104, Application US/09846033B
; Publication No. US2003004404A1
; GENERAL INFORMATION:
; APPLICANT: Rebar, Edward
; APPLICANT: Jamieson, Andrew
; APPLICANT: Liu, Qiang
; APPLICANT: Liu, Pei-Qi
; APPLICANT: Wolfe, Alan
; APPLICANT: Eisenberg, Stephen P.
; APPLICANT: Jarvis, Eric
; APPLICANT: Sangamo Biosciences, Inc.
; TITLE OF INVENTION: Regulation of Angiogenesis with Zinc
; FILE REFERENCE: 019496-005820US
; CURRENT APPLICATION NUMBER: US/09/846,033B
; PRIOR FILING DATE: 2001-04-30
; PRIOR APPLICATION NUMBER: US 09/733,604
; PRIOR FILING DATE: 2000-12-07
; PRIOR APPLICATION NUMBER: US 09/736,083
; PRIOR FILING DATE: 2000-12-12
; NUMBER OF SEQ ID NOS: 252

SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 104
; LENGTH: 7
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: finger
US-09-846-033B-104

Query Match 100.0%; Score 36; DB 11; Length 7;
Best Local Similarity 100.0%; Pred. No. 7e+05;
Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 RSDHLSR 7
Db 1 RSDHLSR 7

RESULT 117

US-09-846-033B-105
; Sequence 105, Application US/09846033B
; Publication No. US2003004404A1
; GENERAL INFORMATION:
; APPLICANT: Rebar, Edward
; APPLICANT: Jamieson, Andrew
; APPLICANT: Liu, Qiang
; APPLICANT: Liu, Pei-Qi
; APPLICANT: Wolfe, Alan
; APPLICANT: Eisenberg, Stephen P.
; APPLICANT: Jarvis, Eric
; APPLICANT: Sangamo Biosciences, Inc.
; TITLE OF INVENTION: Regulation of Angiogenesis with Zinc
; FILE REFERENCE: 019496-005820US
; CURRENT APPLICATION NUMBER: US/09/846,033B
; PRIOR FILING DATE: 2001-04-30
; PRIOR APPLICATION NUMBER: US 09/733,604
; PRIOR FILING DATE: 2000-12-07
; PRIOR APPLICATION NUMBER: US 09/736,083
; PRIOR FILING DATE: 2000-12-12
; SOFTWARE: FastSeq for Windows Version 3.0
; NUMBER OF SEQ ID NOS: 252
; SEQ ID NO 105
; LENGTH: 7
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: finger
US-09-846-033B-105

Query Match 100.0%; Score 36; DB 11; Length 7;
Best Local Similarity 100.0%; Pred. No. 7e+05;
Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 RSDHLSR 7
Db 1 RSDHLSR 7

RESULT 118

US-09-846-033B-106
; Sequence 106, Application US/09846033B
; Publication No. US2003004404A1
; GENERAL INFORMATION:
; APPLICANT: Rebar, Edward
; APPLICANT: Jamieson, Andrew
; APPLICANT: Liu, Qiang
; APPLICANT: Liu, Pei-Qi
; APPLICANT: Wolfe, Alan
; APPLICANT: Eisenberg, Stephen P.
; APPLICANT: Jarvis, Eric
; APPLICANT: Sangamo Biosciences, Inc.
; TITLE OF INVENTION: Regulation of Angiogenesis with Zinc

;; TITLE OF INVENTION: Finger Proteins
;; FILE REFERENCE: 019496-005820US
;; CURRENT APPLICATION NUMBER: US/09/846,033B
;; CURRENT FILING DATE: 2001-04-30
;; PRIOR APPLICATION NUMBER: US 09/733,604
;; PRIOR FILING DATE: 2000-12-07
;; PRIOR APPLICATION NUMBER: US 09/736,083
;; PRIOR FILING DATE: 2000-12-12
;; NUMBER OF SEQ ID NOS: 252
;; SOFTWARE: FastSeq for Windows Version 3.0
;; SEQ ID NO 106
;; LENGTH: 7
;; TYPE: PRT
;; ORGANISM: Artificial Sequence
;; FEATURE:
;; OTHER INFORMATION: finger
US-09-846-033B-106

Query Match 100.0%; Score 36; DB 11; Length 7;
Best Local Similarity 100.0%; Pred. No. 7e+05;
Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 RSDHLR 7
Db 1 RSDHLR 7

RESULT 119
US-09-846-033B-109
;; Sequence 109, Application US/09846033B
;; Publication No. US20030044404A1
;; GENERAL INFORMATION:
;; APPLICANT: Rebar, Edward
;; APPLICANT: Jamieson, Andrew
;; APPLICANT: Liu, Qiang
;; APPLICANT: Liu, Pei-Qi
;; APPLICANT: Wolfe, Alan
;; APPLICANT: Eisenberg, Stephen P.
;; APPLICANT: Jarvis, Eric
;; APPLICANT: Sangamo Biosciences, Inc.
;; TITLE OF INVENTION: Regulation of Angiogenesis With Zinc
;; FILE REFERENCE: 019496-005820US
;; CURRENT APPLICATION NUMBER: US/09/846,033B
;; CURRENT FILING DATE: 2001-04-30
;; PRIOR APPLICATION NUMBER: US 09/733,604
;; PRIOR FILING DATE: 2000-12-07
;; PRIOR APPLICATION NUMBER: US 09/736,083
;; PRIOR FILING DATE: 2000-12-12
;; NUMBER OF SEQ ID NOS: 252
;; SOFTWARE: FastSeq for Windows Version 3.0
;; SEQ ID NO 109
;; LENGTH: 7
;; TYPE: PRT
;; ORGANISM: Artificial Sequence
;; FEATURE:
;; OTHER INFORMATION: finger
US-09-846-033B-109

Query Match 100.0%; Score 36; DB 11; Length 7;
Best Local Similarity 100.0%; Pred. No. 7e+05;
Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 RSDHLR 7
Db 1 RSDHLR 7

RESULT 120
US-09-846-033B-111
;; Sequence 111, Application US/09846033B
;; Publication No. US20030044404A1
;; GENERAL INFORMATION:

;; APPLICANT: Rebar, Edward
;; APPLICANT: Jamieson, Andrew
;; APPLICANT: Liu, Qiang
;; APPLICANT: Liu, Pei-Qi
;; APPLICANT: Wolfe, Alan
;; APPLICANT: Eisenberg, Stephen P.
;; APPLICANT: Jarvis, Eric
;; APPLICANT: Sangamo Biosciences, Inc.
;; TITLE OF INVENTION: Regulation of Angiogenesis With Zinc
;; FILE REFERENCE: 019496-005820US
;; CURRENT APPLICATION NUMBER: US/09/846,033B
;; CURRENT FILING DATE: 2001-04-30
;; PRIOR APPLICATION NUMBER: US 09/733,604
;; PRIOR FILING DATE: 2000-12-07
;; PRIOR APPLICATION NUMBER: US 09/736,083
;; PRIOR FILING DATE: 2000-12-12
;; NUMBER OF SEQ ID NOS: 252
;; SOFTWARE: FastSeq for Windows Version 3.0
;; SEQ ID NO 111
;; LENGTH: 7
;; TYPE: PRT
;; ORGANISM: Artificial Sequence
;; FEATURE:
;; OTHER INFORMATION: finger
US-09-846-033B-111

Query Match 100.0%; Score 36; DB 11; Length 7;
Best Local Similarity 100.0%; Pred. No. 7e+05;
Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 RSDHLR 7
Db 1 RSDHLR 7

RESULT 121
US-09-846-033B-113
;; Sequence 113, Application US/09846033B
;; Publication No. US20030044404A1
;; GENERAL INFORMATION:
;; APPLICANT: Rebar, Edward
;; APPLICANT: Jamieson, Andrew
;; APPLICANT: Liu, Qiang
;; APPLICANT: Liu, Pei-Qi
;; APPLICANT: Wolfe, Alan
;; APPLICANT: Eisenberg, Stephen P.
;; APPLICANT: Jarvis, Eric
;; APPLICANT: Sangamo Biosciences, Inc.
;; TITLE OF INVENTION: Regulation of Angiogenesis With Zinc
;; FILE REFERENCE: 019496-005820US
;; CURRENT APPLICATION NUMBER: US/09/846,033B
;; CURRENT FILING DATE: 2001-04-30
;; PRIOR APPLICATION NUMBER: US 09/733,604
;; PRIOR FILING DATE: 2000-12-07
;; PRIOR APPLICATION NUMBER: US 09/736,083
;; PRIOR FILING DATE: 2000-12-12
;; NUMBER OF SEQ ID NOS: 252
;; SOFTWARE: FastSeq for Windows Version 3.0
;; SEQ ID NO 113
;; LENGTH: 7
;; TYPE: PRT
;; ORGANISM: Artificial Sequence
;; FEATURE:
;; OTHER INFORMATION: finger
US-09-846-033B-113

Query Match 100.0%; Score 36; DB 11; Length 7;
Best Local Similarity 100.0%; Pred. No. 7e+05;
Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 RSDHLR 7

Db 1 RSDHLR 7

RESULT 122
US-09-846-033B-114
; Sequence 114, Application US/09846033B
; Publication No. US20030044404A1
; GENERAL INFORMATION:
; APPLICANT: Rebar, Edward
; APPLICANT: Jamieson, Andrew
; APPLICANT: Liu, Qiang
; APPLICANT: Liu, Pei-Qi
; APPLICANT: Wolffe, Alan
; APPLICANT: Eisenberg, Stephen P.
; APPLICANT: Jarvis, Eric
; APPLICANT: Sangamo Biosciences, Inc.
; TITLE OF INVENTION: Regulation of Angiogenesis With Zinc
; FILE REFERENCE: 019496-005820US
; CURRENT APPLICATION NUMBER: US/09/846,033B
; PRIOR FILING DATE: 2001-04-30
; PRIOR APPLICATION NUMBER: US 09/733,604
; PRIOR FILING DATE: 2000-12-07
; PRIOR APPLICATION NUMBER: US 09/736,083
; NUMBER OF SEQ ID NOS: 252
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 114
; LENGTH: 7
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: finger
US-09-846-033B-114

Query Match 100.0%; Score 36; DB 11; Length 7;
Best Local Similarity 100.0%; Pred. No. 7e+05; 0;
Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 RSDHLR 7
Db 1 RSDHLR 7

RESULT 123
US-09-846-033B-116
; Sequence 116, Application US/09846033B
; Publication No. US20030044404A1
; GENERAL INFORMATION:
; APPLICANT: Rebar, Edward
; APPLICANT: Jamieson, Andrew
; APPLICANT: Liu, Qiang
; APPLICANT: Liu, Pei-Qi
; APPLICANT: Wolffe, Alan
; APPLICANT: Eisenberg, Stephen P.
; APPLICANT: Jarvis, Eric
; APPLICANT: Sangamo Biosciences, Inc.
; TITLE OF INVENTION: Regulation of Angiogenesis With Zinc
; FILE REFERENCE: 019496-005820US
; CURRENT APPLICATION NUMBER: US/09/846,033B
; PRIOR FILING DATE: 2001-04-30
; PRIOR APPLICATION NUMBER: US 09/733,604
; PRIOR FILING DATE: 2000-12-07
; PRIOR APPLICATION NUMBER: US 09/736,083
; NUMBER OF SEQ ID NOS: 252
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 116
; LENGTH: 7
; TYPE: PRT
; ORGANISM: Artificial Sequence

FEATURE:
; OTHER INFORMATION: finger
US-09-846-033B-116

Query Match 100.0%; Score 36; DB 11; Length 7;
Best Local Similarity 100.0%; Pred. No. 7e+05; 0;
Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 RSDHLR 7
Db 1 RSDHLR 7

RESULT 124
US-09-846-033B-154
; Sequence 154, Application US/09846033B
; Publication No. US20030044404A1
; GENERAL INFORMATION:
; APPLICANT: Rebar, Edward
; APPLICANT: Jamieson, Andrew
; APPLICANT: Liu, Qiang
; APPLICANT: Liu, Pei-Qi
; APPLICANT: Wolffe, Alan
; APPLICANT: Eisenberg, Stephen P.
; APPLICANT: Jarvis, Eric
; APPLICANT: Sangamo Biosciences, Inc.
; TITLE OF INVENTION: Regulation of Angiogenesis With Zinc
; FILE REFERENCE: 019496-005820US
; CURRENT APPLICATION NUMBER: US/09/846,033B
; PRIOR FILING DATE: 2001-04-30
; PRIOR APPLICATION NUMBER: US 09/733,604
; PRIOR FILING DATE: 2000-12-07
; PRIOR APPLICATION NUMBER: US 09/736,083
; NUMBER OF SEQ ID NOS: 252
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 154
; LENGTH: 7
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: finger
US-09-846-033B-154

Query Match 100.0%; Score 36; DB 11; Length 7;
Best Local Similarity 100.0%; Pred. No. 7e+05; 0;
Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 RSDHLR 7
Db 1 RSDHLR 7

RESULT 125
US-09-846-033B-163
; Sequence 163, Application US/09846033B
; Publication No. US20030044404A1
; GENERAL INFORMATION:
; APPLICANT: Rebar, Edward
; APPLICANT: Jamieson, Andrew
; APPLICANT: Liu, Qiang
; APPLICANT: Liu, Pei-Qi
; APPLICANT: Wolffe, Alan
; APPLICANT: Eisenberg, Stephen P.
; APPLICANT: Jarvis, Eric
; APPLICANT: Sangamo Biosciences, Inc.
; TITLE OF INVENTION: Regulation of Angiogenesis With Zinc
; FILE REFERENCE: 019496-005820US
; CURRENT APPLICATION NUMBER: US/09/846,033B
; PRIOR FILING DATE: 2001-04-30
; PRIOR APPLICATION NUMBER: US 09/733,604

; PRIOR FILING DATE: 2000-12-07
 ; PRIOR APPLICATION NUMBER: US 09/736,083
 ; PRIOR FILING DATE: 2000-12-12
 ; NUMBER OF SEQ ID NOS: 252
 ; SOFTWARE: FastSeq for Windows Version 3.0
 ; SEQ ID NO: 163
 ; LENGTH: 7
 ; TYPE: PRT
 ; ORGANISM: Artificial Sequence
 ; FEATURE:
 ; OTHER INFORMATION: finger
 US-09-846-033B-163

Query Match 100.0%; Score 36; DB 11; Length 7;
 Best Local Similarity 100.0%; Pred. No. 7e+05;
 Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 RSDHLR 7
 |||||
 DB 1 RSDHLR 7

RESULT 126
 US-09-846-033B-169
 ; Sequence 169, Application US/09846033B
 ; Publication No. US20030044404A1
 ; GENERAL INFORMATION:
 ; APPLICANT: Rebar, Edward
 ; APPLICANT: Jamieson, Andrew
 ; APPLICANT: Liu, Qiang
 ; APPLICANT: Liu, Pei-Qi
 ; APPLICANT: Wolfe, Alan
 ; APPLICANT: Eisenberg, Stephen P.
 ; APPLICANT: Jarvis, Eric
 ; APPLICANT: Sangamo Biosciences, Inc.
 ; TITLE OF INVENTION: Regulation of Angiogenesis With Zinc
 ; FILE REFERENCE: 019496-005820US
 ; CURRENT FILING DATE: 2001-04-30
 ; PRIOR APPLICATION NUMBER: US 09/733,604
 ; PRIOR FILING DATE: 2000-12-07
 ; PRIOR APPLICATION NUMBER: US 09/736,083
 ; PRIOR FILING DATE: 2000-12-12
 ; NUMBER OF SEQ ID NOS: 252
 ; SOFTWARE: FastSeq for Windows Version 3.0
 ; SEQ ID NO: 169
 ; LENGTH: 7
 ; TYPE: PRT
 ; ORGANISM: Artificial Sequence
 ; FEATURE:
 ; OTHER INFORMATION: finger
 US-09-846-033B-169

Query Match 100.0%; Score 36; DB 11; Length 7;
 Best Local Similarity 100.0%; Pred. No. 7e+05;
 Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 RSDHLR 7
 |||||
 DB 1 RSDHLR 7

RESULT 127
 US-09-846-033B-172
 ; Sequence 172, Application US/09846033B
 ; Publication No. US20030044404A1
 ; GENERAL INFORMATION:
 ; APPLICANT: Rebar, Edward
 ; APPLICANT: Jamieson, Andrew
 ; APPLICANT: Liu, Qiang
 ; APPLICANT: Liu, Pei-Qi
 ; APPLICANT: Wolfe, Alan

; APPLICANT: Eisenberg, Stephen P.
 ; APPLICANT: Jarvis, Eric
 ; APPLICANT: Sangamo Biosciences, Inc.
 ; TITLE OF INVENTION: Regulation of Angiogenesis With Zinc
 ; FILE REFERENCE: 019496-005820US
 ; CURRENT FILING DATE: 2001-04-30
 ; PRIOR APPLICATION NUMBER: US 09/733,604
 ; PRIOR FILING DATE: 2000-12-07
 ; PRIOR APPLICATION NUMBER: US 09/736,083
 ; PRIOR FILING DATE: 2000-12-12
 ; NUMBER OF SEQ ID NOS: 252
 ; SOFTWARE: FastSeq for Windows Version 3.0
 ; SEQ ID NO: 172
 ; LENGTH: 7
 ; TYPE: PRT
 ; ORGANISM: Artificial Sequence
 ; FEATURE:
 ; OTHER INFORMATION: finger
 US-09-846-033B-172

Query Match 100.0%; Score 36; DB 11; Length 7;
 Best Local Similarity 100.0%; Pred. No. 7e+05;
 Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 RSDHLR 7
 |||||
 DB 1 RSDHLR 7

RESULT 128
 US-09-846-033B-174
 ; Sequence 174, Application US/09846033B
 ; Publication No. US20030044404A1
 ; GENERAL INFORMATION:
 ; APPLICANT: Rebar, Edward
 ; APPLICANT: Jamieson, Andrew
 ; APPLICANT: Liu, Qiang
 ; APPLICANT: Liu, Pei-Qi
 ; APPLICANT: Wolfe, Alan
 ; APPLICANT: Eisenberg, Stephen P.
 ; APPLICANT: Jarvis, Eric
 ; APPLICANT: Sangamo Biosciences, Inc.
 ; TITLE OF INVENTION: Regulation of Angiogenesis With Zinc
 ; FILE REFERENCE: 019496-005820US
 ; CURRENT FILING DATE: 2001-04-30
 ; PRIOR APPLICATION NUMBER: US 09/733,604
 ; PRIOR FILING DATE: 2000-12-07
 ; PRIOR APPLICATION NUMBER: US 09/736,083
 ; PRIOR FILING DATE: 2000-12-12
 ; NUMBER OF SEQ ID NOS: 252
 ; SOFTWARE: FastSeq for Windows Version 3.0
 ; SEQ ID NO: 174
 ; LENGTH: 7
 ; TYPE: PRT
 ; ORGANISM: Artificial Sequence
 ; FEATURE:
 ; OTHER INFORMATION: finger
 US-09-846-033B-174

Query Match 100.0%; Score 36; DB 11; Length 7;
 Best Local Similarity 100.0%; Pred. No. 7e+05;
 Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 RSDHLR 7
 |||||
 DB 1 RSDHLR 7

RESULT 129

US-09-846-033B-177
Sequence 177, Application US/09846033B
Publication No. US20030044404A1
GENERAL INFORMATION:
APPLICANT: Rebar, Edward
APPLICANT: Jamieson, Andrew
APPLICANT: Liu, Qiang
APPLICANT: Liu, Pei-Qi
APPLICANT: Wolfe, Alan
APPLICANT: Eisenberg, Stephen P.
APPLICANT: Jarvis, Eric
APPLICANT: Sangamo Biosciences, Inc.
TITLE OF INVENTION: Regulation of Angiogenesis With Zinc
FILE REFERENCE: 019496-005820US
CURRENT APPLICATION NUMBER: US/09/846,033B
CURRENT FILING DATE: 2001-04-30/733,604
PRIOR FILING DATE: 2000-12-07
PRIOR APPLICATION NUMBER: US 09/736,083
PRIOR FILING DATE: 2000-12-12
NUMBER OF SEQ ID NOS: 252
SOFTWARE: FastSeq for Windows Version 3.0
SEQ ID NO 177
LENGTH: 7
TYPE: PRT
ORGANISM: Artificial Sequence
FEATURE:
OTHER INFORMATION: finger
US-09-846-033B-177

Query Match
Best Local Similarity 100.0%; Score 36; DB 11; Length 7;
Pred. No. 7e+05;
Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 RSDHLR 7
DB 1 RSDHLR 7

RESULT 130
US-09-846-033B-200
Sequence 200, Application US/09846033B
Publication No. US20030044404A1
GENERAL INFORMATION:
APPLICANT: Rebar, Edward
APPLICANT: Jamieson, Andrew
APPLICANT: Liu, Qiang
APPLICANT: Liu, Pei-Qi
APPLICANT: Wolfe, Alan
APPLICANT: Eisenberg, Stephen P.
APPLICANT: Jarvis, Eric
APPLICANT: Sangamo Biosciences, Inc.
TITLE OF INVENTION: Regulation of Angiogenesis With Zinc
FILE REFERENCE: 019496-005820US
CURRENT APPLICATION NUMBER: US/09/846,033B
CURRENT FILING DATE: 2001-04-30
PRIOR FILING DATE: 2000-12-07
PRIOR APPLICATION NUMBER: US 09/736,083
PRIOR FILING DATE: 2000-12-12
NUMBER OF SEQ ID NOS: 252
SOFTWARE: FastSeq for Windows Version 3.0
SEQ ID NO 200
LENGTH: 7
TYPE: PRT
ORGANISM: Artificial Sequence
FEATURE:
OTHER INFORMATION: recognition helix
US-09-846-033B-200

Query Match
100.0%; Score 36; DB 11; Length 7;
Pred. No. 7e+05;
Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 RSDHLR 7
DB 1 RSDHLR 7

Best Local Similarity 100.0%; Pred. No. 7e+05;
Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 RSDHLR 7
DB 1 RSDHLR 7

RESULT 131
US-09-990-186-229
Sequence 229, Application US/09990186
Publication No. US20030068675A1
GENERAL INFORMATION:
APPLICANT: Liu, Qiang
TITLE OF INVENTION: POSITION DEPENDENT RECOGNITION OF GNN NUCLEOTIDE
FILE REFERENCE: 8325-0011.21 / S11-US3
CURRENT APPLICATION NUMBER: US/09/990,186
CURRENT FILING DATE: 2001-11-20
NUMBER OF SEQ ID NOS: 4085
SOFTWARE: PatentIn Ver. 2.0
SEQ ID NO 229
LENGTH: 7
TYPE: PRT
ORGANISM: Artificial Sequence
FEATURE:
OTHER INFORMATION: Description of Artificial Sequence: example ZFP
US-09-990-186-229

Query Match
Best Local Similarity 100.0%; Score 36; DB 11; Length 7;
Pred. No. 7e+05;
Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 RSDHLR 7
DB 1 RSDHLR 7

RESULT 132
US-09-990-186-230
Sequence 230, Application US/09990186
Publication No. US20030068675A1
GENERAL INFORMATION:
APPLICANT: Liu, Qiang
TITLE OF INVENTION: POSITION DEPENDENT RECOGNITION OF GNN NUCLEOTIDE
FILE REFERENCE: 8325-0011.21 / S11-US3
CURRENT APPLICATION NUMBER: US/09/990,186
CURRENT FILING DATE: 2001-11-20
NUMBER OF SEQ ID NOS: 4085
SOFTWARE: PatentIn Ver. 2.0
SEQ ID NO 230
LENGTH: 7
TYPE: PRT
ORGANISM: Artificial Sequence
FEATURE:
OTHER INFORMATION: Description of Artificial Sequence: example ZFP
US-09-990-186-230

Query Match
Best Local Similarity 100.0%; Score 36; DB 11; Length 7;
Pred. No. 7e+05;
Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 RSDHLR 7
DB 1 RSDHLR 7

RESULT 133
US-09-990-186-234
Sequence 234, Application US/09990186
Publication No. US20030068675A1
GENERAL INFORMATION:

```

; APPLICANT: LIU, Qiang
; TITLE OF INVENTION: POSITION DEPENDENT RECOGNITION OF GNN NUCLEOTIDE
; TITLE OF INVENTION: TRIPLETS BY ZINC FINGERS
; FILE REFERENCE: 8325-0011.21 / S11-US3
; CURRENT APPLICATION NUMBER: US/09/990,186
; CURRENT FILING DATE: 2001-11-20
; NUMBER OF SEQ ID NOS: 4085
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 234
; LENGTH: 7
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: example ZFP
US-09-990-186-234

Query Match
Best Local Similarity 100.0%; Score 36; DB 11; Length 7;
Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 RSDHLSR 7
DB 1 RSDHLSR 7

RESULT 134
US-09-990-186-238
; Sequence 238, Application US/09990186
; Publication No. US20030068675A1
; GENERAL INFORMATION:
; APPLICANT: LIU, Qiang
; TITLE OF INVENTION: POSITION DEPENDENT RECOGNITION OF GNN NUCLEOTIDE
; TITLE OF INVENTION: TRIPLETS BY ZINC FINGERS
; FILE REFERENCE: 8325-0011.21 / S11-US3
; CURRENT APPLICATION NUMBER: US/09/990,186
; CURRENT FILING DATE: 2001-11-20
; NUMBER OF SEQ ID NOS: 4085
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 238
; LENGTH: 7
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: example ZFP
US-09-990-186-238

Query Match
Best Local Similarity 100.0%; Score 36; DB 11; Length 7;
Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 RSDHLSR 7
DB 1 RSDHLSR 7

RESULT 135
US-09-990-186-239
; Sequence 239, Application US/09990186
; Publication No. US20030068675A1
; GENERAL INFORMATION:
; APPLICANT: LIU, Qiang
; TITLE OF INVENTION: POSITION DEPENDENT RECOGNITION OF GNN NUCLEOTIDE
; TITLE OF INVENTION: TRIPLETS BY ZINC FINGERS
; FILE REFERENCE: 8325-0011.21 / S11-US3
; CURRENT APPLICATION NUMBER: US/09/990,186
; CURRENT FILING DATE: 2001-11-20
; NUMBER OF SEQ ID NOS: 4085
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 239
; LENGTH: 7
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:

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; OTHER INFORMATION: Description of Artificial Sequence: example ZFP
US-09-990-186-239

Query Match
Best Local Similarity 100.0%; Score 36; DB 11; Length 7;
Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 RSDHLSR 7
DB 1 RSDHLSR 7

RESULT 136
US-09-990-186-244
; Sequence 244, Application US/09990186
; Publication No. US20030068675A1
; GENERAL INFORMATION:
; APPLICANT: LIU, Qiang
; TITLE OF INVENTION: POSITION DEPENDENT RECOGNITION OF GNN NUCLEOTIDE
; TITLE OF INVENTION: TRIPLETS BY ZINC FINGERS
; FILE REFERENCE: 8325-0011.21 / S11-US3
; CURRENT APPLICATION NUMBER: US/09/990,186
; CURRENT FILING DATE: 2001-11-20
; NUMBER OF SEQ ID NOS: 4085
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 244
; LENGTH: 7
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: example ZFP
US-09-990-186-244

Query Match
Best Local Similarity 100.0%; Score 36; DB 11; Length 7;
Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 RSDHLSR 7
DB 1 RSDHLSR 7

RESULT 137
US-09-990-186-420
; Sequence 420, Application US/09990186
; Publication No. US20030068675A1
; GENERAL INFORMATION:
; APPLICANT: LIU, Qiang
; TITLE OF INVENTION: POSITION DEPENDENT RECOGNITION OF GNN NUCLEOTIDE
; TITLE OF INVENTION: TRIPLETS BY ZINC FINGERS
; FILE REFERENCE: 8325-0011.21 / S11-US3
; CURRENT APPLICATION NUMBER: US/09/990,186
; CURRENT FILING DATE: 2001-11-20
; NUMBER OF SEQ ID NOS: 4085
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 420
; LENGTH: 7
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: example ZFP
US-09-990-186-420

Query Match
Best Local Similarity 100.0%; Score 36; DB 11; Length 7;
Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 RSDHLSR 7
DB 1 RSDHLSR 7

RESULT 138

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```
US-09-990-186-425
; Sequence 425, Application US/09990186
; Publication No. US20030068675A1
; GENERAL INFORMATION:
; APPLICANT: LIU, Qiang
; TITLE OF INVENTION: POSITION DEPENDENT RECOGNITION OF GNN NUCLEOTIDE
; FILE REFERENCE: 8325-0011.21 / S11-US3
; CURRENT APPLICATION NUMBER: US/09/990,186
; CURRENT FILING DATE: 2001-11-20
; NUMBER OF SEQ ID NOS: 4085
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 425
; LENGTH: 7
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: example ZFP
US-09-990-186-425

Query Match
Best Local Similarity 100.0%; Score 36; DB 11; Length 7;
Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 RSDHLR 7
DB 1 RSDHLR 7

RESULT 139
US-09-990-186-426
; Sequence 426, Application US/09990186
; Publication No. US20030068675A1
; GENERAL INFORMATION:
; APPLICANT: LIU, Qiang
; TITLE OF INVENTION: POSITION DEPENDENT RECOGNITION OF GNN NUCLEOTIDE
; FILE REFERENCE: 8325-0011.21 / S11-US3
; CURRENT APPLICATION NUMBER: US/09/990,186
; CURRENT FILING DATE: 2001-11-20
; NUMBER OF SEQ ID NOS: 4085
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 426
; LENGTH: 7
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: example ZFP
US-09-990-186-426

Query Match
Best Local Similarity 100.0%; Score 36; DB 11; Length 7;
Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 RSDHLR 7
DB 1 RSDHLR 7

RESULT 140
US-09-990-186-428
; Sequence 428, Application US/09990186
; Publication No. US20030068675A1
; GENERAL INFORMATION:
; APPLICANT: LIU, Qiang
; TITLE OF INVENTION: POSITION DEPENDENT RECOGNITION OF GNN NUCLEOTIDE
; FILE REFERENCE: 8325-0011.21 / S11-US3
; CURRENT APPLICATION NUMBER: US/09/990,186
; CURRENT FILING DATE: 2001-11-20
; NUMBER OF SEQ ID NOS: 4085
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 428
```

```
; LENGTH: 7
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: example ZFP
US-09-990-186-428

Query Match
Best Local Similarity 100.0%; Score 36; DB 11; Length 7;
Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 RSDHLR 7
DB 1 RSDHLR 7

RESULT 141
US-09-990-186-434
; Sequence 434, Application US/09990186
; Publication No. US20030068675A1
; GENERAL INFORMATION:
; APPLICANT: LIU, Qiang
; TITLE OF INVENTION: POSITION DEPENDENT RECOGNITION OF GNN NUCLEOTIDE
; FILE REFERENCE: 8325-0011.21 / S11-US3
; CURRENT APPLICATION NUMBER: US/09/990,186
; CURRENT FILING DATE: 2001-11-20
; NUMBER OF SEQ ID NOS: 4085
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 434
; LENGTH: 7
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: example ZFP
US-09-990-186-434

Query Match
Best Local Similarity 100.0%; Score 36; DB 11; Length 7;
Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 RSDHLR 7
DB 1 RSDHLR 7

RESULT 142
US-09-990-186-832
; Sequence 832, Application US/09990186
; Publication No. US20030068675A1
; GENERAL INFORMATION:
; APPLICANT: LIU, Qiang
; TITLE OF INVENTION: POSITION DEPENDENT RECOGNITION OF GNN NUCLEOTIDE
; FILE REFERENCE: 8325-0011.21 / S11-US3
; CURRENT APPLICATION NUMBER: US/09/990,186
; CURRENT FILING DATE: 2001-11-20
; NUMBER OF SEQ ID NOS: 4085
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 832
; LENGTH: 7
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: example ZFP
US-09-990-186-832

Query Match
Best Local Similarity 100.0%; Score 36; DB 11; Length 7;
Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 RSDHLR 7
DB 1 RSDHLR 7
```

Db 1 RSDHLSR 7

RESULT 143
US-09-990-186-840
; Sequence 840, Application US/09990186
; Publication No. US20030068675A1
; GENERAL INFORMATION:
; APPLICANT: LIU, Qiang
; TITLE OF INVENTION: POSITION DEPENDENT RECOGNITION OF GNN NUCLEOTIDE
; FILE REFERENCE: 8325-0011.21 / S11-US3
; CURRENT APPLICATION NUMBER: US/09/990,186
; CURRENT FILING DATE: 2001-11-20
; NUMBER OF SEQ ID NOS: 4085
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 840
; LENGTH: 7
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: example ZFP
US-09-990-186-840

Query Match 100.0%; Score 36; DB 11; Length 7;
Best Local Similarity 100.0%; Pred. No. 7e+05;
Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 RSDHLSR 7
Db 1 RSDHLSR 7

RESULT 144
US-09-990-186-888
; Sequence 888, Application US/09990186
; Publication No. US20030068675A1
; GENERAL INFORMATION:
; APPLICANT: LIU, Qiang
; TITLE OF INVENTION: POSITION DEPENDENT RECOGNITION OF GNN NUCLEOTIDE
; FILE REFERENCE: 8325-0011.21 / S11-US3
; CURRENT APPLICATION NUMBER: US/09/990,186
; CURRENT FILING DATE: 2001-11-20
; NUMBER OF SEQ ID NOS: 4085
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 888
; LENGTH: 7
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: example ZFP
US-09-990-186-888

Query Match 100.0%; Score 36; DB 11; Length 7;
Best Local Similarity 100.0%; Pred. No. 7e+05;
Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 RSDHLSR 7
Db 1 RSDHLSR 7

RESULT 145
US-09-990-186-1001
; Sequence 1001, Application US/09990186
; Publication No. US20030068675A1
; GENERAL INFORMATION:
; APPLICANT: LIU, Qiang
; TITLE OF INVENTION: POSITION DEPENDENT RECOGNITION OF GNN NUCLEOTIDE
; FILE REFERENCE: 8325-0011.21 / S11-US3
; CURRENT APPLICATION NUMBER: US/09/990,186

; CURRENT FILING DATE: 2001-11-20
; NUMBER OF SEQ ID NOS: 4085
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 1001
; LENGTH: 7
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: example ZFP
US-09-990-186-1001

Query Match 100.0%; Score 36; DB 11; Length 7;
Best Local Similarity 100.0%; Pred. No. 7e+05;
Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 RSDHLSR 7
Db 1 RSDHLSR 7

RESULT 146
US-09-990-186-1089
; Sequence 1089, Application US/09990186
; Publication No. US20030068675A1
; GENERAL INFORMATION:
; APPLICANT: LIU, Qiang
; TITLE OF INVENTION: POSITION DEPENDENT RECOGNITION OF GNN NUCLEOTIDE
; FILE REFERENCE: 8325-0011.21 / S11-US3
; CURRENT APPLICATION NUMBER: US/09/990,186
; CURRENT FILING DATE: 2001-11-20
; NUMBER OF SEQ ID NOS: 4085
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 1089
; LENGTH: 7
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: example ZFP
US-09-990-186-1089

Query Match 100.0%; Score 36; DB 11; Length 7;
Best Local Similarity 100.0%; Pred. No. 7e+05;
Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 RSDHLSR 7
Db 1 RSDHLSR 7

RESULT 147
US-09-990-186-1090
; Sequence 1090, Application US/09990186
; Publication No. US20030068675A1
; GENERAL INFORMATION:
; APPLICANT: LIU, Qiang
; TITLE OF INVENTION: POSITION DEPENDENT RECOGNITION OF GNN NUCLEOTIDE
; FILE REFERENCE: 8325-0011.21 / S11-US3
; CURRENT APPLICATION NUMBER: US/09/990,186
; CURRENT FILING DATE: 2001-11-20
; NUMBER OF SEQ ID NOS: 4085
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 1090
; LENGTH: 7
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: example ZFP
US-09-990-186-1090

Query Match 100.0%; Score 36; DB 11; Length 7;
Best Local Similarity 100.0%; Pred. No. 7e+05;

Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 RSDHLSR 7
Db 1 RSDHLSR 7

RESULT 148

US-09-990-186-1091
; Sequence 1091, Application US/09990186
; Publication No. US20030068675A1
; GENERAL INFORMATION:
; APPLICANT: LIU, Qiang
; TITLE OF INVENTION: POSITION DEPENDENT RECOGNITION OF GNN NUCLEOTIDE
; FILE REFERENCE: 8325-0011.21 / S11-US3
; CURRENT APPLICATION NUMBER: US/09/990,186
; CURRENT FILING DATE: 2001-11-20
; NUMBER OF SEQ ID NOS: 4085
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 1091
; LENGTH: 7
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: example ZFP
US-09-990-186-1091

Query Match 100.0%; Score 36; DB 11; Length 7;
Best Local Similarity 100.0%; Pred. No. 7e+05;
Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 RSDHLSR 7
Db 1 RSDHLSR 7

RESULT 149

US-09-990-186-1094
; Sequence 1094, Application US/09990186
; Publication No. US20030068675A1
; GENERAL INFORMATION:
; APPLICANT: LIU, Qiang
; TITLE OF INVENTION: POSITION DEPENDENT RECOGNITION OF GNN NUCLEOTIDE
; FILE REFERENCE: 8325-0011.21 / S11-US3
; CURRENT APPLICATION NUMBER: US/09/990,186
; CURRENT FILING DATE: 2001-11-20
; NUMBER OF SEQ ID NOS: 4085
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 1094
; LENGTH: 7
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: example ZFP
US-09-990-186-1094

Query Match 100.0%; Score 36; DB 11; Length 7;
Best Local Similarity 100.0%; Pred. No. 7e+05;
Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 RSDHLSR 7
Db 1 RSDHLSR 7

RESULT 150
US-09-990-186-1138
; Sequence 1138, Application US/09990186
; Publication No. US20030068675A1
; GENERAL INFORMATION:
; APPLICANT: LIU, Qiang

; TITLE OF INVENTION: POSITION DEPENDENT RECOGNITION OF GNN NUCLEOTIDE
; FILE REFERENCE: 8325-0011.21 / S11-US3
; CURRENT APPLICATION NUMBER: US/09/990,186
; CURRENT FILING DATE: 2001-11-20
; NUMBER OF SEQ ID NOS: 4085
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 1138
; LENGTH: 7
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: example ZFP
US-09-990-186-1138

Query Match 100.0%; Score 36; DB 11; Length 7;
Best Local Similarity 100.0%; Pred. No. 7e+05;
Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 RSDHLSR 7
Db 1 RSDHLSR 7

RESULT 151

US-09-990-186-1139
; Sequence 1139, Application US/09990186
; Publication No. US20030068675A1
; GENERAL INFORMATION:
; APPLICANT: LIU, Qiang
; TITLE OF INVENTION: POSITION DEPENDENT RECOGNITION OF GNN NUCLEOTIDE
; FILE REFERENCE: 8325-0011.21 / S11-US3
; CURRENT APPLICATION NUMBER: US/09/990,186
; CURRENT FILING DATE: 2001-11-20
; NUMBER OF SEQ ID NOS: 4085
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 1139
; LENGTH: 7
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: example ZFP
US-09-990-186-1139

Query Match 100.0%; Score 36; DB 11; Length 7;
Best Local Similarity 100.0%; Pred. No. 7e+05;
Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 RSDHLSR 7
Db 1 RSDHLSR 7

RESULT 152

US-09-990-186-1178
; Sequence 1178, Application US/09990186
; Publication No. US20030068675A1
; GENERAL INFORMATION:
; APPLICANT: LIU, Qiang
; TITLE OF INVENTION: POSITION DEPENDENT RECOGNITION OF GNN NUCLEOTIDE
; FILE REFERENCE: 8325-0011.21 / S11-US3
; CURRENT APPLICATION NUMBER: US/09/990,186
; CURRENT FILING DATE: 2001-11-20
; NUMBER OF SEQ ID NOS: 4085
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 1178
; LENGTH: 7
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: example ZFP
US-09-990-186-1178

Query Match 100.0%; Score 36; DB 11; Length 7;
Best Local Similarity 100.0%; Pred. No. 7e+05;
Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

US-09-990-186-1178

Query Match 100.0%; Score 36; DB 11; Length 7;
Best Local Similarity 100.0%; Pred. No. 7e+05;
Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 RSDHLSR 7
1 RSDHLSR 7

RESULT 153
US-09-990-186-1179
Sequence 1179, Application US/09990186
Publication No. US20030068675A1

GENERAL INFORMATION:
APPLICANT: LIU, Qiang
TITLE OF INVENTION: POSITION DEPENDENT RECOGNITION OF GNN NUCLEOTIDE
FILE REFERENCE: 8325-0011.21 / S11-US3
CURRENT APPLICATION NUMBER: US/09/990,186
CURRENT FILING DATE: 2001-11-20
NUMBER OF SEQ ID NOS: 4085
SOFTWARE: PatentIn Ver. 2.0
SEQ ID NO 1179
LENGTH: 7
TYPE: PRT
ORGANISM: Artificial Sequence
FEATURE:
OTHER INFORMATION: Description of Artificial Sequence: example ZFP
US-09-990-186-1179

Query Match 100.0%; Score 36; DB 11; Length 7;
Best Local Similarity 100.0%; Pred. No. 7e+05;
Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 RSDHLSR 7
1 RSDHLSR 7

RESULT 154
US-09-990-186-1199
Sequence 1199, Application US/09990186
Publication No. US20030068675A1

GENERAL INFORMATION:
APPLICANT: LIU, Qiang
TITLE OF INVENTION: POSITION DEPENDENT RECOGNITION OF GNN NUCLEOTIDE
FILE REFERENCE: 8325-0011.21 / S11-US3
CURRENT APPLICATION NUMBER: US/09/990,186
CURRENT FILING DATE: 2001-11-20
NUMBER OF SEQ ID NOS: 4085
SOFTWARE: PatentIn Ver. 2.0
SEQ ID NO 1199
LENGTH: 7
TYPE: PRT
ORGANISM: Artificial Sequence
FEATURE:
OTHER INFORMATION: Description of Artificial Sequence: example ZFP
US-09-990-186-1199

Query Match 100.0%; Score 36; DB 11; Length 7;
Best Local Similarity 100.0%; Pred. No. 7e+05;
Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 RSDHLSR 7
1 RSDHLSR 7

RESULT 155
US-09-990-186-1207

Sequence 1207, Application US/09990186
Publication No. US20030068675A1

GENERAL INFORMATION:
APPLICANT: LIU, Qiang
TITLE OF INVENTION: POSITION DEPENDENT RECOGNITION OF GNN NUCLEOTIDE
FILE REFERENCE: 8325-0011.21 / S11-US3
CURRENT APPLICATION NUMBER: US/09/990,186
CURRENT FILING DATE: 2001-11-20
NUMBER OF SEQ ID NOS: 4085
SOFTWARE: PatentIn Ver. 2.0
SEQ ID NO 1207
LENGTH: 7
TYPE: PRT
ORGANISM: Artificial Sequence
FEATURE:
OTHER INFORMATION: Description of Artificial Sequence: example ZFP
US-09-990-186-1207

Query Match 100.0%; Score 36; DB 11; Length 7;
Best Local Similarity 100.0%; Pred. No. 7e+05;
Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 RSDHLSR 7
1 RSDHLSR 7

RESULT 156
US-09-990-186-1219
Sequence 1219, Application US/09990186
Publication No. US20030068675A1

GENERAL INFORMATION:
APPLICANT: LIU, Qiang
TITLE OF INVENTION: POSITION DEPENDENT RECOGNITION OF GNN NUCLEOTIDE
FILE REFERENCE: 8325-0011.21 / S11-US3
CURRENT APPLICATION NUMBER: US/09/990,186
CURRENT FILING DATE: 2001-11-20
NUMBER OF SEQ ID NOS: 4085
SOFTWARE: PatentIn Ver. 2.0
SEQ ID NO 1219
LENGTH: 7
TYPE: PRT
ORGANISM: Artificial Sequence
FEATURE:
OTHER INFORMATION: Description of Artificial Sequence: example ZFP
US-09-990-186-1219

Query Match 100.0%; Score 36; DB 11; Length 7;
Best Local Similarity 100.0%; Pred. No. 7e+05;
Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 RSDHLSR 7
1 RSDHLSR 7

RESULT 157
US-09-990-186-1220
Sequence 1220, Application US/09990186
Publication No. US20030068675A1

GENERAL INFORMATION:
APPLICANT: LIU, Qiang
TITLE OF INVENTION: POSITION DEPENDENT RECOGNITION OF GNN NUCLEOTIDE
FILE REFERENCE: 8325-0011.21 / S11-US3
CURRENT APPLICATION NUMBER: US/09/990,186
CURRENT FILING DATE: 2001-11-20
NUMBER OF SEQ ID NOS: 4085
SOFTWARE: PatentIn Ver. 2.0
SEQ ID NO 1220
LENGTH: 7

```

; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: example ZFP
US-09-990-186-1220

```

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Query Match
Best Local Similarity 100.0%; Score 36; DB 11; Length 7;
Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

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```

QY 1 RSDHLSR 7
   |||||
   |||||
Db 1 RSDHLSR 7

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RESULT 158

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US-09-990-186-1224
; Sequence 1224, Application US/09990186
; Publication No. US20030068675A1
; GENERAL INFORMATION:
; APPLICANT: Liu, Qiang
; TITLE OF INVENTION: POSITION DEPENDENT RECOGNITION OF GNN NUCLEOTIDE
; FILE REFERENCE: 8325-0011.21 / S11-US3
; CURRENT APPLICATION NUMBER: US/09/990,186
; CURRENT FILING DATE: 2001-11-20
; NUMBER OF SEQ ID NOS: 4085
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 1224
; LENGTH: 7
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: example ZFP
US-09-990-186-1224

```

```

Query Match
Best Local Similarity 100.0%; Score 36; DB 11; Length 7;
Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

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```

QY 1 RSDHLSR 7
   |||||
   |||||
Db 1 RSDHLSR 7

```

RESULT 159

```

US-09-990-186-1225
; Sequence 1225, Application US/09990186
; Publication No. US20030068675A1
; GENERAL INFORMATION:
; APPLICANT: Liu, Qiang
; TITLE OF INVENTION: POSITION DEPENDENT RECOGNITION OF GNN NUCLEOTIDE
; FILE REFERENCE: 8325-0011.21 / S11-US3
; CURRENT APPLICATION NUMBER: US/09/990,186
; CURRENT FILING DATE: 2001-11-20
; NUMBER OF SEQ ID NOS: 4085
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 1225
; LENGTH: 7
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: example ZFP
US-09-990-186-1225

```

```

Query Match
Best Local Similarity 100.0%; Score 36; DB 11; Length 7;
Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

```

```

QY 1 RSDHLSR 7
   |||||
   |||||
Db 1 RSDHLSR 7

```

RESULT 160

```

US-09-990-186-1234
; Sequence 1234, Application US/09990186
; Publication No. US20030068675A1
; GENERAL INFORMATION:
; APPLICANT: Liu, Qiang
; TITLE OF INVENTION: POSITION DEPENDENT RECOGNITION OF GNN NUCLEOTIDE
; FILE REFERENCE: 8325-0011.21 / S11-US3
; CURRENT APPLICATION NUMBER: US/09/990,186
; CURRENT FILING DATE: 2001-11-20
; NUMBER OF SEQ ID NOS: 4085
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 1234
; LENGTH: 7
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: example ZFP
US-09-990-186-1234

```

```

Query Match
Best Local Similarity 100.0%; Score 36; DB 11; Length 7;
Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

```

```

QY 1 RSDHLSR 7
   |||||
   |||||
Db 1 RSDHLSR 7

```

RESULT 161

```

US-09-990-186-1260
; Sequence 1260, Application US/09990186
; Publication No. US20030068675A1
; GENERAL INFORMATION:
; APPLICANT: Liu, Qiang
; TITLE OF INVENTION: POSITION DEPENDENT RECOGNITION OF GNN NUCLEOTIDE
; FILE REFERENCE: 8325-0011.21 / S11-US3
; CURRENT APPLICATION NUMBER: US/09/990,186
; CURRENT FILING DATE: 2001-11-20
; NUMBER OF SEQ ID NOS: 4085
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 1260
; LENGTH: 7
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: example ZFP
US-09-990-186-1260

```

```

Query Match
Best Local Similarity 100.0%; Score 36; DB 11; Length 7;
Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

```

```

QY 1 RSDHLSR 7
   |||||
   |||||
Db 1 RSDHLSR 7

```

RESULT 162

```

US-09-990-186-1471
; Sequence 1471, Application US/09990186
; Publication No. US20030068675A1
; GENERAL INFORMATION:
; APPLICANT: Liu, Qiang
; TITLE OF INVENTION: POSITION DEPENDENT RECOGNITION OF GNN NUCLEOTIDE
; FILE REFERENCE: 8325-0011.21 / S11-US3
; CURRENT APPLICATION NUMBER: US/09/990,186
; CURRENT FILING DATE: 2001-11-20

```

```

; NUMBER OF SEQ ID NOS: 4085
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 1471
; LENGTH: 7
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: example ZFP
US-09-990-186-1471

Query Match
Best Local Similarity 100.0%; Score 36; DB 11; Length 7;
Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 RSDHLSR 7
Db 1 RSDHLSR 7

RESULT 163
US-09-990-186-1529
; Sequence 1529, Application US/09990186
; Publication No. US20030068675A1
; GENERAL INFORMATION:
; APPLICANT: LIU, Qiang
; TITLE OF INVENTION: POSITION DEPENDENT RECOGNITION OF GNN NUCLEOTIDE
; FILE REFERENCE: 8325-0011.21 / S11-US3
; CURRENT APPLICATION NUMBER: US/09/990,186
; CURRENT FILING DATE: 2001-11-20
; NUMBER OF SEQ ID NOS: 4085
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 1529
; LENGTH: 7
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: example ZFP
US-09-990-186-1529

Query Match
Best Local Similarity 100.0%; Score 36; DB 11; Length 7;
Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 RSDHLSR 7
Db 1 RSDHLSR 7

RESULT 164
US-09-990-186-1530
; Sequence 1530, Application US/09990186
; Publication No. US20030068675A1
; GENERAL INFORMATION:
; APPLICANT: LIU, Qiang
; TITLE OF INVENTION: POSITION DEPENDENT RECOGNITION OF GNN NUCLEOTIDE
; FILE REFERENCE: 8325-0011.21 / S11-US3
; CURRENT APPLICATION NUMBER: US/09/990,186
; CURRENT FILING DATE: 2001-11-20
; NUMBER OF SEQ ID NOS: 4085
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 1530
; LENGTH: 7
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: example ZFP
US-09-990-186-1530

Query Match
Best Local Similarity 100.0%; Score 36; DB 11; Length 7;
Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
```

```

QY 1 RSDHLSR 7
Db 1 RSDHLSR 7

RESULT 165
US-09-990-186-1541
; Sequence 1541, Application US/09990186
; Publication No. US20030068675A1
; GENERAL INFORMATION:
; APPLICANT: LIU, Qiang
; TITLE OF INVENTION: POSITION DEPENDENT RECOGNITION OF GNN NUCLEOTIDE
; FILE REFERENCE: 8325-0011.21 / S11-US3
; CURRENT APPLICATION NUMBER: US/09/990,186
; CURRENT FILING DATE: 2001-11-20
; NUMBER OF SEQ ID NOS: 4085
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 1541
; LENGTH: 7
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: example ZFP
US-09-990-186-1541

Query Match
Best Local Similarity 100.0%; Score 36; DB 11; Length 7;
Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 RSDHLSR 7
Db 1 RSDHLSR 7

RESULT 166
US-09-990-186-1546
; Sequence 1546, Application US/09990186
; Publication No. US20030068675A1
; GENERAL INFORMATION:
; APPLICANT: LIU, Qiang
; TITLE OF INVENTION: POSITION DEPENDENT RECOGNITION OF GNN NUCLEOTIDE
; FILE REFERENCE: 8325-0011.21 / S11-US3
; CURRENT APPLICATION NUMBER: US/09/990,186
; CURRENT FILING DATE: 2001-11-20
; NUMBER OF SEQ ID NOS: 4085
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 1546
; LENGTH: 7
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: example ZFP
US-09-990-186-1546

Query Match
Best Local Similarity 100.0%; Score 36; DB 11; Length 7;
Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 RSDHLSR 7
Db 1 RSDHLSR 7

RESULT 167
US-09-990-186-1565
; Sequence 1565, Application US/09990186
; Publication No. US20030068675A1
; GENERAL INFORMATION:
; APPLICANT: LIU, Qiang
; TITLE OF INVENTION: POSITION DEPENDENT RECOGNITION OF GNN NUCLEOTIDE
```

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; TITLE OF INVENTION: TRIPLETS BY ZINC FINGERS
; FILE REFERENCE: 8325-0011.21 / S11-US3
; CURRENT APPLICATION NUMBER: US/09/990,186
; CURRENT FILING DATE: 2001-11-20
; NUMBER OF SEQ ID NOS: 4085
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 1565
; LENGTH: 7
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: example ZFP
US-09-990-186-1565

Query Match
Best Local Similarity 100.0%; Score 36; DB 11; Length 7;
Pred. No. 7e+05; Mismatches 0; Indels 0; Gaps 0;
Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 RSDHLR 7
   |||||
Db 1 RSDHLR 7

RESULT 168
US-09-990-186-1575
; Sequence 1575, Application US/09990186
; Publication No. US20030068675A1
; GENERAL INFORMATION:
; APPLICANT: Liu, Qiang
; TITLE OF INVENTION: POSITION DEPENDENT RECOGNITION OF GNN NUCLEOTIDE
; FILE REFERENCE: 8325-0011.21 / S11-US3
; CURRENT APPLICATION NUMBER: US/09/990,186
; CURRENT FILING DATE: 2001-11-20
; NUMBER OF SEQ ID NOS: 4085
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 1575
; LENGTH: 7
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: example ZFP
US-09-990-186-1575

Query Match
Best Local Similarity 100.0%; Score 36; DB 11; Length 7;
Pred. No. 7e+05; Mismatches 0; Indels 0; Gaps 0;
Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 RSDHLR 7
   |||||
Db 1 RSDHLR 7

RESULT 169
US-09-990-186-1603
; Sequence 1603, Application US/09990186
; Publication No. US20030068675A1
; GENERAL INFORMATION:
; APPLICANT: Liu, Qiang
; TITLE OF INVENTION: POSITION DEPENDENT RECOGNITION OF GNN NUCLEOTIDE
; FILE REFERENCE: 8325-0011.21 / S11-US3
; CURRENT APPLICATION NUMBER: US/09/990,186
; CURRENT FILING DATE: 2001-11-20
; NUMBER OF SEQ ID NOS: 4085
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 1603
; LENGTH: 7
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: example ZFP
US-09-990-186-1603

```

```

Query Match
Best Local Similarity 100.0%; Score 36; DB 11; Length 7;
Pred. No. 7e+05; Mismatches 0; Indels 0; Gaps 0;
Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 RSDHLR 7
   |||||
Db 1 RSDHLR 7

RESULT 170
US-09-990-186-1714
; Sequence 1714, Application US/09990186
; Publication No. US20030068675A1
; GENERAL INFORMATION:
; APPLICANT: Liu, Qiang
; TITLE OF INVENTION: POSITION DEPENDENT RECOGNITION OF GNN NUCLEOTIDE
; FILE REFERENCE: 8325-0011.21 / S11-US3
; CURRENT APPLICATION NUMBER: US/09/990,186
; CURRENT FILING DATE: 2001-11-20
; NUMBER OF SEQ ID NOS: 4085
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 1714
; LENGTH: 7
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: example ZFP
US-09-990-186-1714

Query Match
Best Local Similarity 100.0%; Score 36; DB 11; Length 7;
Pred. No. 7e+05; Mismatches 0; Indels 0; Gaps 0;
Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 RSDHLR 7
   |||||
Db 1 RSDHLR 7

RESULT 171
US-09-990-186-1715
; Sequence 1715, Application US/09990186
; Publication No. US20030068675A1
; GENERAL INFORMATION:
; APPLICANT: Liu, Qiang
; TITLE OF INVENTION: POSITION DEPENDENT RECOGNITION OF GNN NUCLEOTIDE
; FILE REFERENCE: 8325-0011.21 / S11-US3
; CURRENT APPLICATION NUMBER: US/09/990,186
; CURRENT FILING DATE: 2001-11-20
; NUMBER OF SEQ ID NOS: 4085
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 1715
; LENGTH: 7
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: example ZFP
US-09-990-186-1715

Query Match
Best Local Similarity 100.0%; Score 36; DB 11; Length 7;
Pred. No. 7e+05; Mismatches 0; Indels 0; Gaps 0;
Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 RSDHLR 7
   |||||
Db 1 RSDHLR 7

RESULT 172
US-09-990-186-1716
; Sequence 1716, Application US/09990186

```

```
Publication No. US20030068675A1
; GENERAL INFORMATION:
; APPLICANT: LIU, Qiang
; TITLE OF INVENTION: POSITION DEPENDENT RECOGNITION OF GNN NUCLEOTIDE
; FILE REFERENCE: 8325-0011.21 / S11-US3
; CURRENT APPLICATION NUMBER: US/09/990,186
; CURRENT FILING DATE: 2001-11-20
; NUMBER OF SEQ ID NOS: 4085
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 1716
; LENGTH: 7
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: example ZFP
US-09-990-186-1716
```

```
Query Match
Best Local Similarity 100.0%; Score 36; DB 11; Length 7;
Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
```

```
QY 1 RSDHLSR 7
Db 1 RSDHLSR 7
```

```
RESULT 173
US-09-990-186-1717
; Sequence 1717, Application US/09990186
; Publication No. US20030068675A1
; GENERAL INFORMATION:
; APPLICANT: LIU, Qiang
; TITLE OF INVENTION: POSITION DEPENDENT RECOGNITION OF GNN NUCLEOTIDE
; FILE REFERENCE: 8325-0011.21 / S11-US3
; CURRENT APPLICATION NUMBER: US/09/990,186
; CURRENT FILING DATE: 2001-11-20
; NUMBER OF SEQ ID NOS: 4085
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 1717
; LENGTH: 7
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: example ZFP
US-09-990-186-1717
```

```
Query Match
Best Local Similarity 100.0%; Score 36; DB 11; Length 7;
Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
```

```
QY 1 RSDHLSR 7
Db 1 RSDHLSR 7
```

```
RESULT 174
US-09-990-186-1718
; Sequence 1718, Application US/09990186
; Publication No. US20030068675A1
; GENERAL INFORMATION:
; APPLICANT: LIU, Qiang
; TITLE OF INVENTION: POSITION DEPENDENT RECOGNITION OF GNN NUCLEOTIDE
; FILE REFERENCE: 8325-0011.21 / S11-US3
; CURRENT APPLICATION NUMBER: US/09/990,186
; CURRENT FILING DATE: 2001-11-20
; NUMBER OF SEQ ID NOS: 4085
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 1718
; LENGTH: 7
; TYPE: PRT
```

```
ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: example ZFP
US-09-990-186-1718
```

```
Query Match
Best Local Similarity 100.0%; Score 36; DB 11; Length 7;
Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
```

```
QY 1 RSDHLSR 7
Db 1 RSDHLSR 7
```

```
RESULT 175
US-09-990-186-1870
; Sequence 1870, Application US/09990186
; Publication No. US20030068675A1
; GENERAL INFORMATION:
; APPLICANT: LIU, Qiang
; TITLE OF INVENTION: POSITION DEPENDENT RECOGNITION OF GNN NUCLEOTIDE
; FILE REFERENCE: 8325-0011.21 / S11-US3
; CURRENT APPLICATION NUMBER: US/09/990,186
; CURRENT FILING DATE: 2001-11-20
; NUMBER OF SEQ ID NOS: 4085
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 1870
; LENGTH: 7
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: example ZFP
US-09-990-186-1870
```

```
Query Match
Best Local Similarity 100.0%; Score 36; DB 11; Length 7;
Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
```

```
QY 1 RSDHLSR 7
Db 1 RSDHLSR 7
```

```
RESULT 176
US-09-990-186-1872
; Sequence 1872, Application US/09990186
; Publication No. US20030068675A1
; GENERAL INFORMATION:
; APPLICANT: LIU, Qiang
; TITLE OF INVENTION: POSITION DEPENDENT RECOGNITION OF GNN NUCLEOTIDE
; FILE REFERENCE: 8325-0011.21 / S11-US3
; CURRENT APPLICATION NUMBER: US/09/990,186
; CURRENT FILING DATE: 2001-11-20
; NUMBER OF SEQ ID NOS: 4085
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 1872
; LENGTH: 7
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: example ZFP
US-09-990-186-1872
```

```
Query Match
Best Local Similarity 100.0%; Score 36; DB 11; Length 7;
Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
```

```
QY 1 RSDHLSR 7
Db 1 RSDHLSR 7
```



```
RESULT 177
US-09-990-186-1878
; Sequence 1878, Application US/09990186
; Publication No. US20030068675A1
; GENERAL INFORMATION:
; APPLICANT: LIT, Qiang
; TITLE OF INVENTION: POSITION DEPENDENT RECOGNITION OF GNN NUCLEOTIDE
; FILE REFERENCE: 8325-0011.21 / S11-US3
; CURRENT APPLICATION NUMBER: US/09/990,186
; CURRENT FILING DATE: 2001-11-20
; NUMBER OF SEQ ID NOS: 4085
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 1878
; LENGTH: 7
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: example ZFP
US-09-990-186-1878

Query Match      100.0%; Score 36; DB 11; Length 7;
Best Local Similarity 100.0%; Pred. No. 7e+05;
Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy      1 RSDHLR 7
        |||||
        1 RSDHLR 7

Db
```

```
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 1882
; LENGTH: 7
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: example ZFP
US-09-990-186-1882

Query Match      100.0%; Score 36; DB 11; Length 7;
Best Local Similarity 100.0%; Pred. No. 7e+05;
Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy      1 RSDHLR 7
        |||||
        1 RSDHLR 7

Db
```

```
RESULT 180
US-09-990-186-1883
; Sequence 1883, Application US/09990186
; Publication No. US20030068675A1
; GENERAL INFORMATION:
; APPLICANT: LIT, Qiang
; TITLE OF INVENTION: POSITION DEPENDENT RECOGNITION OF GNN NUCLEOTIDE
; FILE REFERENCE: 8325-0011.21 / S11-US3
; CURRENT APPLICATION NUMBER: US/09/990,186
; CURRENT FILING DATE: 2001-11-20
; NUMBER OF SEQ ID NOS: 4085
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 1883
; LENGTH: 7
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: example ZFP
US-09-990-186-1883

Query Match      100.0%; Score 36; DB 11; Length 7;
Best Local Similarity 100.0%; Pred. No. 7e+05;
Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy      1 RSDHLR 7
        |||||
        1 RSDHLR 7

Db
```

```
RESULT 181
US-09-990-186-1884
; Sequence 1884, Application US/09990186
; Publication No. US20030068675A1
; GENERAL INFORMATION:
; APPLICANT: LIT, Qiang
; TITLE OF INVENTION: POSITION DEPENDENT RECOGNITION OF GNN NUCLEOTIDE
; FILE REFERENCE: 8325-0011.21 / S11-US3
; CURRENT APPLICATION NUMBER: US/09/990,186
; CURRENT FILING DATE: 2001-11-20
; NUMBER OF SEQ ID NOS: 4085
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 1884
; LENGTH: 7
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: example ZFP
US-09-990-186-1884

Query Match      100.0%; Score 36; DB 11; Length 7;
Best Local Similarity 100.0%; Pred. No. 7e+05;
Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
```

Qy 1 RSDHLSR 7
 Db 1 RSDHLSR 7

RESULT 182

US-09-990-186-1951
 ; Sequence 1951, Application US/09990186
 ; Publication No. US20030068675A1
 ; GENERAL INFORMATION:

APPLICANT: LIU, Qiang
 TITLE OF INVENTION: POSITION DEPENDENT RECOGNITION OF GNN NUCLEOTIDE
 FILE REFERENCE: 8325-0011.21 / S11-US3
 CURRENT APPLICATION NUMBER: US/09/990,186
 CURRENT FILING DATE: 2001-11-20
 NUMBER OF SEQ ID NOS: 4085
 SOFTWARE: PatentIn Ver. 2.0
 SEQ ID NO: 1951
 LENGTH: 7
 TYPE: PRT
 ORGANISM: Artificial Sequence
 FEATURE:
 OTHER INFORMATION: Description of Artificial Sequence: example ZFP
 US-09-990-186-1951

Query Match 100.0%; Score 36; DB 11; Length 7;
 Best Local Similarity 100.0%; Pred. No. 7e+05;
 Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 RSDHLSR 7
 Db 1 RSDHLSR 7

RESULT 183

US-09-990-186-1952
 ; Sequence 1952, Application US/09990186
 ; Publication No. US20030068675A1
 ; GENERAL INFORMATION:

APPLICANT: LIU, Qiang
 TITLE OF INVENTION: POSITION DEPENDENT RECOGNITION OF GNN NUCLEOTIDE
 FILE REFERENCE: 8325-0011.21 / S11-US3
 CURRENT APPLICATION NUMBER: US/09/990,186
 CURRENT FILING DATE: 2001-11-20
 NUMBER OF SEQ ID NOS: 4085
 SOFTWARE: PatentIn Ver. 2.0
 SEQ ID NO: 1952
 LENGTH: 7
 TYPE: PRT
 ORGANISM: Artificial Sequence
 FEATURE:
 OTHER INFORMATION: Description of Artificial Sequence: example ZFP
 US-09-990-186-1952

Query Match 100.0%; Score 36; DB 11; Length 7;
 Best Local Similarity 100.0%; Pred. No. 7e+05;
 Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 RSDHLSR 7
 Db 1 RSDHLSR 7

RESULT 184

US-09-990-186-1977
 ; Sequence 1977, Application US/09990186
 ; Publication No. US20030068675A1
 ; GENERAL INFORMATION:

APPLICANT: LIU, Qiang
 TITLE OF INVENTION: POSITION DEPENDENT RECOGNITION OF GNN NUCLEOTIDE
 FILE REFERENCE: 8325-0011.21 / S11-US3
 CURRENT APPLICATION NUMBER: US/09/990,186
 CURRENT FILING DATE: 2001-11-20
 NUMBER OF SEQ ID NOS: 4085
 SOFTWARE: PatentIn Ver. 2.0
 SEQ ID NO: 1977
 LENGTH: 7
 TYPE: PRT
 ORGANISM: Artificial Sequence
 FEATURE:
 OTHER INFORMATION: Description of Artificial Sequence: example ZFP
 US-09-990-186-1977

FILE REFERENCE: 8325-0011.21 / S11-US3
 CURRENT APPLICATION NUMBER: US/09/990,186
 CURRENT FILING DATE: 2001-11-20
 NUMBER OF SEQ ID NOS: 4085
 SOFTWARE: PatentIn Ver. 2.0
 SEQ ID NO: 1977
 LENGTH: 7
 TYPE: PRT
 ORGANISM: Artificial Sequence
 FEATURE:
 OTHER INFORMATION: Description of Artificial Sequence: example ZFP
 US-09-990-186-1977

Query Match 100.0%; Score 36; DB 11; Length 7;
 Best Local Similarity 100.0%; Pred. No. 7e+05;
 Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 RSDHLSR 7
 Db 1 RSDHLSR 7

RESULT 185

US-09-990-186-2618
 ; Sequence 2618, Application US/09990186
 ; Publication No. US20030068675A1
 ; GENERAL INFORMATION:

APPLICANT: LIU, Qiang
 TITLE OF INVENTION: POSITION DEPENDENT RECOGNITION OF GNN NUCLEOTIDE
 FILE REFERENCE: 8325-0011.21 / S11-US3
 CURRENT APPLICATION NUMBER: US/09/990,186
 CURRENT FILING DATE: 2001-11-20
 NUMBER OF SEQ ID NOS: 4085
 SOFTWARE: PatentIn Ver. 2.0
 SEQ ID NO: 2618
 LENGTH: 7
 TYPE: PRT
 ORGANISM: Artificial Sequence
 FEATURE:
 OTHER INFORMATION: Description of Artificial Sequence: example ZFP
 US-09-990-186-2618

Query Match 100.0%; Score 36; DB 11; Length 7;
 Best Local Similarity 100.0%; Pred. No. 7e+05;
 Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 RSDHLSR 7
 Db 1 RSDHLSR 7

RESULT 186

US-09-990-186-2619
 ; Sequence 2619, Application US/09990186
 ; Publication No. US20030068675A1
 ; GENERAL INFORMATION:

APPLICANT: LIU, Qiang
 TITLE OF INVENTION: POSITION DEPENDENT RECOGNITION OF GNN NUCLEOTIDE
 FILE REFERENCE: 8325-0011.21 / S11-US3
 CURRENT APPLICATION NUMBER: US/09/990,186
 CURRENT FILING DATE: 2001-11-20
 NUMBER OF SEQ ID NOS: 4085
 SOFTWARE: PatentIn Ver. 2.0
 SEQ ID NO: 2619
 LENGTH: 7
 TYPE: PRT
 ORGANISM: Artificial Sequence
 FEATURE:
 OTHER INFORMATION: Description of Artificial Sequence: example ZFP
 US-09-990-186-2619

Query Match 100.0%; Score 36; DB 11; Length 7;
 Best Local Similarity 100.0%; Pred. No. 7e+05;
 Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Query Match 100.0%; Score 36; DB 11; Length 7;
Best Local Similarity 100.0%; Pred. No. 7e+05;
Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 RSDHLR 7
DB 1 RSDHLR 7

RESULT 187
US-09-990-186-2663
; Sequence 2663, Application US/09990186
; Publication No. US20030068675A1
; GENERAL INFORMATION:
; APPLICANT: LIU, Qiang
; TITLE OF INVENTION: POSITION DEPENDENT RECOGNITION OF GNN NUCLEOTIDE
; FILE REFERENCE: 8325-0011.21 / S11-US3
; CURRENT APPLICATION NUMBER: US/09/990,186
; CURRENT FILING DATE: 2001-11-20
; NUMBER OF SEQ ID NOS: 4085
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 2663
; LENGTH: 7
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: example ZFP
US-09-990-186-2663

Query Match 100.0%; Score 36; DB 11; Length 7;
Best Local Similarity 100.0%; Pred. No. 7e+05;
Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 RSDHLR 7
DB 1 RSDHLR 7

RESULT 188
US-09-990-186-2741
; Sequence 2741, Application US/09990186
; Publication No. US20030068675A1
; GENERAL INFORMATION:
; APPLICANT: LIU, Qiang
; TITLE OF INVENTION: POSITION DEPENDENT RECOGNITION OF GNN NUCLEOTIDE
; FILE REFERENCE: 8325-0011.21 / S11-US3
; CURRENT APPLICATION NUMBER: US/09/990,186
; CURRENT FILING DATE: 2001-11-20
; NUMBER OF SEQ ID NOS: 4085
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 2741
; LENGTH: 7
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: example ZFP
US-09-990-186-2741

Query Match 100.0%; Score 36; DB 11; Length 7;
Best Local Similarity 100.0%; Pred. No. 7e+05;
Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 RSDHLR 7
DB 1 RSDHLR 7

RESULT 189
US-09-990-186-2742
; Sequence 2742, Application US/09990186
; Publication No. US20030068675A1

; GENERAL INFORMATION:
; APPLICANT: LIU, Qiang
; TITLE OF INVENTION: POSITION DEPENDENT RECOGNITION OF GNN NUCLEOTIDE
; FILE REFERENCE: 8325-0011.21 / S11-US3
; CURRENT APPLICATION NUMBER: US/09/990,186
; CURRENT FILING DATE: 2001-11-20
; NUMBER OF SEQ ID NOS: 4085
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 2742
; LENGTH: 7
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: example ZFP
US-09-990-186-2742

Query Match 100.0%; Score 36; DB 11; Length 7;
Best Local Similarity 100.0%; Pred. No. 7e+05;
Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 RSDHLR 7
DB 1 RSDHLR 7

RESULT 190
US-09-990-186-2788
; Sequence 2788, Application US/09990186
; Publication No. US20030068675A1
; GENERAL INFORMATION:
; APPLICANT: LIU, Qiang
; TITLE OF INVENTION: POSITION DEPENDENT RECOGNITION OF GNN NUCLEOTIDE
; FILE REFERENCE: 8325-0011.21 / S11-US3
; CURRENT APPLICATION NUMBER: US/09/990,186
; CURRENT FILING DATE: 2001-11-20
; NUMBER OF SEQ ID NOS: 4085
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 2788
; LENGTH: 7
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: example ZFP
US-09-990-186-2788

Query Match 100.0%; Score 36; DB 11; Length 7;
Best Local Similarity 100.0%; Pred. No. 7e+05;
Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 RSDHLR 7
DB 1 RSDHLR 7

RESULT 191
US-09-990-186-2930
; Sequence 2930, Application US/09990186
; Publication No. US20030068675A1
; GENERAL INFORMATION:
; APPLICANT: LIU, Qiang
; TITLE OF INVENTION: POSITION DEPENDENT RECOGNITION OF GNN NUCLEOTIDE
; FILE REFERENCE: 8325-0011.21 / S11-US3
; CURRENT APPLICATION NUMBER: US/09/990,186
; CURRENT FILING DATE: 2001-11-20
; NUMBER OF SEQ ID NOS: 4085
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 2930
; LENGTH: 7
; TYPE: PRT
; ORGANISM: Artificial Sequence

FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: example ZFP
US-09-990-186-2930

Query Match 100.0%; Score 36; DB 11; Length 7;
Best Local Similarity 100.0%; Pred. No. 7e+05;
Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 RSDHLSR 7
1 RSDHLSR 7

RESULT 192
US-09-990-186-2936
; Sequence 2936, Application US/09990186
; Publication No. US20030068675A1
; GENERAL INFORMATION:
; APPLICANT: LIU, Qiang
; TITLE OF INVENTION: POSITION DEPENDENT RECOGNITION OF GNN NUCLEOTIDE
; FILE REFERENCE: 8325-0011.21 / S11-US3
; CURRENT FILING DATE: 2001-11-20
; NUMBER OF SEQ ID NOS: 4085
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 2936
; LENGTH: 7
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: example ZFP
US-09-990-186-2936

Query Match 100.0%; Score 36; DB 11; Length 7;
Best Local Similarity 100.0%; Pred. No. 7e+05;
Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 RSDHLSR 7
1 RSDHLSR 7

RESULT 193
US-09-990-186-2937
; Sequence 2937, Application US/09990186
; Publication No. US20030068675A1
; GENERAL INFORMATION:
; APPLICANT: LIU, Qiang
; TITLE OF INVENTION: POSITION DEPENDENT RECOGNITION OF GNN NUCLEOTIDE
; FILE REFERENCE: 8325-0011.21 / S11-US3
; CURRENT FILING DATE: 2001-11-20
; NUMBER OF SEQ ID NOS: 4085
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 2937
; LENGTH: 7
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: example ZFP
US-09-990-186-2937

Query Match 100.0%; Score 36; DB 11; Length 7;
Best Local Similarity 100.0%; Pred. No. 7e+05;
Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 RSDHLSR 7
1 RSDHLSR 7

RESULT 194
US-09-990-186-2940
; Sequence 2940, Application US/09990186
; Publication No. US20030068675A1
; GENERAL INFORMATION:
; APPLICANT: LIU, Qiang
; TITLE OF INVENTION: POSITION DEPENDENT RECOGNITION OF GNN NUCLEOTIDE
; FILE REFERENCE: 8325-0011.21 / S11-US3
; CURRENT FILING DATE: 2001-11-20
; NUMBER OF SEQ ID NOS: 4085
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 2940
; LENGTH: 7
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: example ZFP
US-09-990-186-2940

Query Match 100.0%; Score 36; DB 11; Length 7;
Best Local Similarity 100.0%; Pred. No. 7e+05;
Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 RSDHLSR 7
1 RSDHLSR 7

RESULT 195
US-09-990-186-2941
; Sequence 2941, Application US/09990186
; Publication No. US20030068675A1
; GENERAL INFORMATION:
; APPLICANT: LIU, Qiang
; TITLE OF INVENTION: POSITION DEPENDENT RECOGNITION OF GNN NUCLEOTIDE
; FILE REFERENCE: 8325-0011.21 / S11-US3
; CURRENT FILING DATE: 2001-11-20
; NUMBER OF SEQ ID NOS: 4085
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 2941
; LENGTH: 7
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: example ZFP
US-09-990-186-2941

Query Match 100.0%; Score 36; DB 11; Length 7;
Best Local Similarity 100.0%; Pred. No. 7e+05;
Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 RSDHLSR 7
1 RSDHLSR 7

RESULT 196
US-09-990-186-2961
; Sequence 2961, Application US/09990186
; Publication No. US20030068675A1
; GENERAL INFORMATION:
; APPLICANT: LIU, Qiang
; TITLE OF INVENTION: POSITION DEPENDENT RECOGNITION OF GNN NUCLEOTIDE
; FILE REFERENCE: 8325-0011.21 / S11-US3
; CURRENT FILING DATE: 2001-11-20
; NUMBER OF SEQ ID NOS: 4085
; SOFTWARE: PatentIn Ver. 2.0

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; SEQ ID NO 2961
; LENGTH: 7
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: example ZFP
US-09-990-186-2961

Query Match
Best Local Similarity 100.0%; Score 36; DB 11; Length 7;
Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 RSDHLR 7
Db 1 RSDHLR 7

RESULT 197
US-09-990-186-2965
; Sequence 2965, Application US/09990186
; Publication No. US20030068675A1
; GENERAL INFORMATION:
; APPLICANT: LIU, Qiang
; TITLE OF INVENTION: POSITION DEPENDENT RECOGNITION OF GNN NUCLEOTIDE
; FILE REFERENCE: 8325-0011.21 / S11-US3
; CURRENT APPLICATION NUMBER: US/09/990,186
; CURRENT FILING DATE: 2001-11-20
; NUMBER OF SEQ ID NOS: 4085
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 2965
; LENGTH: 7
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: example ZFP
US-09-990-186-2965

Query Match
Best Local Similarity 100.0%; Score 36; DB 11; Length 7;
Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 RSDHLR 7
Db 1 RSDHLR 7

RESULT 198
US-09-990-186-2985
; Sequence 2985, Application US/09990186
; Publication No. US20030068675A1
; GENERAL INFORMATION:
; APPLICANT: LIU, Qiang
; TITLE OF INVENTION: POSITION DEPENDENT RECOGNITION OF GNN NUCLEOTIDE
; FILE REFERENCE: 8325-0011.21 / S11-US3
; CURRENT APPLICATION NUMBER: US/09/990,186
; CURRENT FILING DATE: 2001-11-20
; NUMBER OF SEQ ID NOS: 4085
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 2985
; LENGTH: 7
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: example ZFP
US-09-990-186-2985

Query Match
Best Local Similarity 100.0%; Score 36; DB 11; Length 7;
Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 RSDHLR 7
Db 1 RSDHLR 7
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Db 1 RSDHLR 7

RESULT 199
US-09-990-186-3002
; Sequence 3002, Application US/09990186
; Publication No. US20030068675A1
; GENERAL INFORMATION:
; APPLICANT: LIU, Qiang
; TITLE OF INVENTION: POSITION DEPENDENT RECOGNITION OF GNN NUCLEOTIDE
; FILE REFERENCE: 8325-0011.21 / S11-US3
; CURRENT APPLICATION NUMBER: US/09/990,186
; CURRENT FILING DATE: 2001-11-20
; NUMBER OF SEQ ID NOS: 4085
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 3002
; LENGTH: 7
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: example ZFP
US-09-990-186-3002

Query Match
Best Local Similarity 100.0%; Score 36; DB 11; Length 7;
Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 RSDHLR 7
Db 1 RSDHLR 7

RESULT 200
US-09-990-186-3116
; Sequence 3116, Application US/09990186
; Publication No. US20030068675A1
; GENERAL INFORMATION:
; APPLICANT: LIU, Qiang
; TITLE OF INVENTION: POSITION DEPENDENT RECOGNITION OF GNN NUCLEOTIDE
; FILE REFERENCE: 8325-0011.21 / S11-US3
; CURRENT APPLICATION NUMBER: US/09/990,186
; CURRENT FILING DATE: 2001-11-20
; NUMBER OF SEQ ID NOS: 4085
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 3116
; LENGTH: 7
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: example ZFP
US-09-990-186-3116

Query Match
Best Local Similarity 100.0%; Score 36; DB 11; Length 7;
Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 RSDHLR 7
Db 1 RSDHLR 7

RESULT 201
US-09-990-186-3117
; Sequence 3117, Application US/09990186
; Publication No. US20030068675A1
; GENERAL INFORMATION:
; APPLICANT: LIU, Qiang
; TITLE OF INVENTION: POSITION DEPENDENT RECOGNITION OF GNN NUCLEOTIDE
; FILE REFERENCE: 8325-0011.21 / S11-US3
```

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; CURRENT APPLICATION NUMBER: US/09/990,186
; CURRENT FILING DATE: 2001-11-20
; NUMBER OF SEQ ID NOS: 4085
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 3117
; LENGTH: 7
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: example ZFP
US-09-990-186-3117

Query Match
Best Local Similarity 100.0%; Score 36; DB 11; Length 7;
Pred. No. 7e+05; Mismatches 0; Indels 0; Gaps 0;
Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 RSDHLSR 7
DB 1 RSDHLSR 7

RESULT 202
US-09-990-186-3155
; Sequence 3155, Application US/09990186
; Publication No. US20030068675A1
; GENERAL INFORMATION:
; APPLICANT: LIU, Qiang
; TITLE OF INVENTION: POSITION DEPENDENT RECOGNITION OF GNN NUCLEOTIDE
; FILE REFERENCE: 8325-0011.21 / S11-US3
; CURRENT APPLICATION NUMBER: US/09/990,186
; CURRENT FILING DATE: 2001-11-20
; NUMBER OF SEQ ID NOS: 4085
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 3155
; LENGTH: 7
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: example ZFP
US-09-990-186-3155

Query Match
Best Local Similarity 100.0%; Score 36; DB 11; Length 7;
Pred. No. 7e+05; Mismatches 0; Indels 0; Gaps 0;
Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 RSDHLSR 7
DB 1 RSDHLSR 7

RESULT 203
US-09-990-186-3156
; Sequence 3156, Application US/09990186
; Publication No. US20030068675A1
; GENERAL INFORMATION:
; APPLICANT: LIU, Qiang
; TITLE OF INVENTION: POSITION DEPENDENT RECOGNITION OF GNN NUCLEOTIDE
; FILE REFERENCE: 8325-0011.21 / S11-US3
; CURRENT APPLICATION NUMBER: US/09/990,186
; CURRENT FILING DATE: 2001-11-20
; NUMBER OF SEQ ID NOS: 4085
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 3156
; LENGTH: 7
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: example ZFP
US-09-990-186-3156

Query Match
Best Local Similarity 100.0%; Score 36; DB 11; Length 7;
Pred. No. 7e+05; Mismatches 0; Indels 0; Gaps 0;
Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 RSDHLSR 7
DB 1 RSDHLSR 7
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```

Best Local Similarity 100.0%; Pred. No. 7e+05; Mismatches 0; Indels 0; Gaps 0;
Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 RSDHLSR 7
DB 1 RSDHLSR 7

RESULT 204
US-09-990-186-3580
; Sequence 3580, Application US/09990186
; Publication No. US20030068675A1
; GENERAL INFORMATION:
; APPLICANT: LIU, Qiang
; TITLE OF INVENTION: POSITION DEPENDENT RECOGNITION OF GNN NUCLEOTIDE
; FILE REFERENCE: 8325-0011.21 / S11-US3
; CURRENT APPLICATION NUMBER: US/09/990,186
; CURRENT FILING DATE: 2001-11-20
; NUMBER OF SEQ ID NOS: 4085
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 3580
; LENGTH: 7
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: example ZFP
US-09-990-186-3580

Query Match
Best Local Similarity 100.0%; Score 36; DB 11; Length 7;
Pred. No. 7e+05; Mismatches 0; Indels 0; Gaps 0;
Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 RSDHLSR 7
DB 1 RSDHLSR 7

RESULT 205
US-09-990-186-3581
; Sequence 3581, Application US/09990186
; Publication No. US20030068675A1
; GENERAL INFORMATION:
; APPLICANT: LIU, Qiang
; TITLE OF INVENTION: POSITION DEPENDENT RECOGNITION OF GNN NUCLEOTIDE
; FILE REFERENCE: 8325-0011.21 / S11-US3
; CURRENT APPLICATION NUMBER: US/09/990,186
; CURRENT FILING DATE: 2001-11-20
; NUMBER OF SEQ ID NOS: 4085
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 3581
; LENGTH: 7
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: example ZFP
US-09-990-186-3581

Query Match
Best Local Similarity 100.0%; Score 36; DB 11; Length 7;
Pred. No. 7e+05; Mismatches 0; Indels 0; Gaps 0;
Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 RSDHLSR 7
DB 1 RSDHLSR 7

RESULT 206
US-09-990-186-3608
; Sequence 3608, Application US/09990186
; Publication No. US20030068675A1
; GENERAL INFORMATION:
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; APPLICANT: LIU, Qiang
; TITLE OF INVENTION: POSITION DEPENDENT RECOGNITION OF GNN NUCLEOTIDE
; FILE REFERENCE: 8325-0011.21 / S11-US3
; CURRENT APPLICATION NUMBER: US/09/990,186
; CURRENT FILING DATE: 2001-11-20
; NUMBER OF SEQ ID NOS: 4085
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 3608
; LENGTH: 7
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: example ZFP
US-09-990-186-3608

Query Match
Best Local Similarity 100.0%; Score 36; DB 11; Length 7;
Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 RSDHLSR 7
Db 1 RSDHLSR 7

RESULT 207
US-09-990-186-3623
; Sequence 3623, Application US/09990186
; Publication No. US20030068675A1
; GENERAL INFORMATION:
; APPLICANT: LIU, Qiang
; TITLE OF INVENTION: POSITION DEPENDENT RECOGNITION OF GNN NUCLEOTIDE
; FILE REFERENCE: 8325-0011.21 / S11-US3
; CURRENT APPLICATION NUMBER: US/09/990,186
; CURRENT FILING DATE: 2001-11-20
; NUMBER OF SEQ ID NOS: 4085
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 3623
; LENGTH: 7
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: example ZFP
US-09-990-186-3623

Query Match
Best Local Similarity 100.0%; Score 36; DB 11; Length 7;
Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 RSDHLSR 7
Db 1 RSDHLSR 7

RESULT 208
US-09-990-186-3624
; Sequence 3624, Application US/09990186
; Publication No. US20030068675A1
; GENERAL INFORMATION:
; APPLICANT: LIU, Qiang
; TITLE OF INVENTION: POSITION DEPENDENT RECOGNITION OF GNN NUCLEOTIDE
; FILE REFERENCE: 8325-0011.21 / S11-US3
; CURRENT APPLICATION NUMBER: US/09/990,186
; CURRENT FILING DATE: 2001-11-20
; NUMBER OF SEQ ID NOS: 4085
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 3624
; LENGTH: 7
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
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; OTHER INFORMATION: Description of Artificial Sequence: example ZFP
US-09-990-186-3624

Query Match
Best Local Similarity 100.0%; Score 36; DB 11; Length 7;
Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 RSDHLSR 7
Db 1 RSDHLSR 7

RESULT 209
US-09-990-186-3625
; Sequence 3625, Application US/09990186
; Publication No. US20030068675A1
; GENERAL INFORMATION:
; APPLICANT: LIU, Qiang
; TITLE OF INVENTION: POSITION DEPENDENT RECOGNITION OF GNN NUCLEOTIDE
; FILE REFERENCE: 8325-0011.21 / S11-US3
; CURRENT APPLICATION NUMBER: US/09/990,186
; CURRENT FILING DATE: 2001-11-20
; NUMBER OF SEQ ID NOS: 4085
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 3625
; LENGTH: 7
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: example ZFP
US-09-990-186-3625

Query Match
Best Local Similarity 100.0%; Score 36; DB 11; Length 7;
Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 RSDHLSR 7
Db 1 RSDHLSR 7

RESULT 210
US-09-990-186-3636
; Sequence 3636, Application US/09990186
; Publication No. US20030068675A1
; GENERAL INFORMATION:
; APPLICANT: LIU, Qiang
; TITLE OF INVENTION: POSITION DEPENDENT RECOGNITION OF GNN NUCLEOTIDE
; FILE REFERENCE: 8325-0011.21 / S11-US3
; CURRENT APPLICATION NUMBER: US/09/990,186
; CURRENT FILING DATE: 2001-11-20
; NUMBER OF SEQ ID NOS: 4085
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 3636
; LENGTH: 7
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: example ZFP
US-09-990-186-3636

Query Match
Best Local Similarity 100.0%; Score 36; DB 11; Length 7;
Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 RSDHLSR 7
Db 1 RSDHLSR 7

RESULT 211
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US-09-990-186-3637
 ; Sequence 3637, Application US/09990186
 ; Publication No. US20030068675A1
 ; GENERAL INFORMATION:
 ; APPLICANT: LIU, Qiang
 ; TITLE OF INVENTION: POSITION DEPENDENT RECOGNITION OF GNN NUCLEOTIDE
 ; FILE REFERENCE: 8325-0011.21 / S11-US3
 ; CURRENT APPLICATION NUMBER: US/09/990,186
 ; CURRENT FILING DATE: 2001-11-20
 ; NUMBER OF SEQ ID NOS: 4085
 ; SOFTWARE: PatentIn Ver. 2.0
 ; SEQ ID NO 3637
 ; LENGTH: 7
 ; TYPE: PRT
 ; ORGANISM: Artificial Sequence
 ; FEATURE:
 ; OTHER INFORMATION: Description of Artificial Sequence: example ZFP
 US-09-990-186-3637

Query Match 100.0%; Score 36; DB 11; Length 7;
 Best Local Similarity 100.0%; Pred. No. 7e+05;
 Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 RSDHLSR 7
 |||||
 Db 1 RSDHLSR 7

RESULT 212
 US-09-990-186-3648
 ; Sequence 3648, Application US/09990186
 ; Publication No. US20030068675A1
 ; GENERAL INFORMATION:
 ; APPLICANT: LIU, Qiang
 ; TITLE OF INVENTION: POSITION DEPENDENT RECOGNITION OF GNN NUCLEOTIDE
 ; FILE REFERENCE: 8325-0011.21 / S11-US3
 ; CURRENT APPLICATION NUMBER: US/09/990,186
 ; CURRENT FILING DATE: 2001-11-20
 ; NUMBER OF SEQ ID NOS: 4085
 ; SOFTWARE: PatentIn Ver. 2.0
 ; SEQ ID NO 3648
 ; LENGTH: 7
 ; TYPE: PRT
 ; ORGANISM: Artificial Sequence
 ; FEATURE:
 ; OTHER INFORMATION: Description of Artificial Sequence: example ZFP
 US-09-990-186-3648

Query Match 100.0%; Score 36; DB 11; Length 7;
 Best Local Similarity 100.0%; Pred. No. 7e+05;
 Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 RSDHLSR 7
 |||||
 Db 1 RSDHLSR 7

RESULT 213
 US-09-990-186-3649
 ; Sequence 3649, Application US/09990186
 ; Publication No. US20030068675A1
 ; GENERAL INFORMATION:
 ; APPLICANT: LIU, Qiang
 ; TITLE OF INVENTION: POSITION DEPENDENT RECOGNITION OF GNN NUCLEOTIDE
 ; FILE REFERENCE: 8325-0011.21 / S11-US3
 ; CURRENT APPLICATION NUMBER: US/09/990,186
 ; CURRENT FILING DATE: 2001-11-20
 ; NUMBER OF SEQ ID NOS: 4085
 ; SOFTWARE: PatentIn Ver. 2.0
 ; SEQ ID NO 3649

LENGTH: 7
 ; TYPE: PRT
 ; ORGANISM: Artificial Sequence
 ; FEATURE:
 ; OTHER INFORMATION: Description of Artificial Sequence: example ZFP
 US-09-990-186-3649

Query Match 100.0%; Score 36; DB 11; Length 7;
 Best Local Similarity 100.0%; Pred. No. 7e+05;
 Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 RSDHLSR 7
 |||||
 Db 1 RSDHLSR 7

RESULT 214
 US-09-990-186-3655
 ; Sequence 3655, Application US/09990186
 ; Publication No. US20030068675A1
 ; GENERAL INFORMATION:
 ; APPLICANT: LIU, Qiang
 ; TITLE OF INVENTION: POSITION DEPENDENT RECOGNITION OF GNN NUCLEOTIDE
 ; FILE REFERENCE: 8325-0011.21 / S11-US3
 ; CURRENT APPLICATION NUMBER: US/09/990,186
 ; CURRENT FILING DATE: 2001-11-20
 ; NUMBER OF SEQ ID NOS: 4085
 ; SOFTWARE: PatentIn Ver. 2.0
 ; SEQ ID NO 3655
 ; LENGTH: 7
 ; TYPE: PRT
 ; ORGANISM: Artificial Sequence
 ; FEATURE:
 ; OTHER INFORMATION: Description of Artificial Sequence: example ZFP
 US-09-990-186-3655

Query Match 100.0%; Score 36; DB 11; Length 7;
 Best Local Similarity 100.0%; Pred. No. 7e+05;
 Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 RSDHLSR 7
 |||||
 Db 1 RSDHLSR 7

RESULT 215
 US-09-990-186-3656
 ; Sequence 3656, Application US/09990186
 ; Publication No. US20030068675A1
 ; GENERAL INFORMATION:
 ; APPLICANT: LIU, Qiang
 ; TITLE OF INVENTION: POSITION DEPENDENT RECOGNITION OF GNN NUCLEOTIDE
 ; FILE REFERENCE: 8325-0011.21 / S11-US3
 ; CURRENT APPLICATION NUMBER: US/09/990,186
 ; CURRENT FILING DATE: 2001-11-20
 ; NUMBER OF SEQ ID NOS: 4085
 ; SOFTWARE: PatentIn Ver. 2.0
 ; SEQ ID NO 3656
 ; LENGTH: 7
 ; TYPE: PRT
 ; ORGANISM: Artificial Sequence
 ; FEATURE:
 ; OTHER INFORMATION: Description of Artificial Sequence: example ZFP
 US-09-990-186-3656

Query Match 100.0%; Score 36; DB 11; Length 7;
 Best Local Similarity 100.0%; Pred. No. 7e+05;
 Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 RSDHLSR 7
 |||||

Db 1 RSDHLR 7

RESULT 216

US-09-990-186-3658
; Sequence 3658, Application US/09990186
; Publication No. US2003006675A1
; GENERAL INFORMATION:
; APPLICANT: LIU, Qiang
; TITLE OF INVENTION: POSITION DEPENDENT RECOGNITION OF GNN NUCLEOTIDE
; FILE REFERENCE: 8325-0011.21 / S11-US3
; CURRENT APPLICATION NUMBER: US/09/990,186
; CURRENT FILING DATE: 2001-11-20
; NUMBER OF SEQ ID NOS: 4085
; SOFTWARE: Patentin Ver. 2.0
; SEQ ID NO 3658
; LENGTH: 7
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: example ZFP
US-09-990-186-3658

Query Match

100.0%; Score 36; DB 11; Length 7;

Best Local Similarity 100.0%; Pred. No. 7e+05; 0; Indels 0; Gaps 0;

Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 RSDHLR 7
Db 1 RSDHLR 7

RESULT 217

US-09-990-186-3672
; Sequence 3672, Application US/09990186
; Publication No. US2003006675A1
; GENERAL INFORMATION:
; APPLICANT: LIU, Qiang
; TITLE OF INVENTION: POSITION DEPENDENT RECOGNITION OF GNN NUCLEOTIDE
; FILE REFERENCE: 8325-0011.21 / S11-US3
; CURRENT APPLICATION NUMBER: US/09/990,186
; CURRENT FILING DATE: 2001-11-20
; NUMBER OF SEQ ID NOS: 4085
; SOFTWARE: Patentin Ver. 2.0
; SEQ ID NO 3672
; LENGTH: 7
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: example ZFP
US-09-990-186-3672

Query Match

100.0%; Score 36; DB 11; Length 7;

Best Local Similarity 100.0%; Pred. No. 7e+05; 0; Indels 0; Gaps 0;

Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 RSDHLR 7
Db 1 RSDHLR 7

RESULT 218

US-09-990-186-3673
; Sequence 3673, Application US/09990186
; Publication No. US2003006675A1
; GENERAL INFORMATION:
; APPLICANT: LIU, Qiang
; TITLE OF INVENTION: POSITION DEPENDENT RECOGNITION OF GNN NUCLEOTIDE
; FILE REFERENCE: 8325-0011.21 / S11-US3
; CURRENT APPLICATION NUMBER: US/09/990,186

; CURRENT FILING DATE: 2001-11-20

; NUMBER OF SEQ ID NOS: 4085

; SOFTWARE: Patentin Ver. 2.0

; SEQ ID NO 3673

; LENGTH: 7

; TYPE: PRT

; ORGANISM: Artificial Sequence

; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: example ZFP
US-09-990-186-3673

Query Match

100.0%; Score 36; DB 11; Length 7;

Best Local Similarity 100.0%; Pred. No. 7e+05; 0; Indels 0; Gaps 0;

Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 RSDHLR 7
Db 1 RSDHLR 7

RESULT 219

US-09-990-186-3707
; Sequence 3707, Application US/09990186
; Publication No. US2003006675A1
; GENERAL INFORMATION:
; APPLICANT: LIU, Qiang
; TITLE OF INVENTION: POSITION DEPENDENT RECOGNITION OF GNN NUCLEOTIDE
; FILE REFERENCE: 8325-0011.21 / S11-US3
; CURRENT APPLICATION NUMBER: US/09/990,186
; CURRENT FILING DATE: 2001-11-20
; NUMBER OF SEQ ID NOS: 4085
; SOFTWARE: Patentin Ver. 2.0
; SEQ ID NO 3707
; LENGTH: 7
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: example ZFP
US-09-990-186-3707

Query Match

100.0%; Score 36; DB 11; Length 7;

Best Local Similarity 100.0%; Pred. No. 7e+05; 0; Indels 0; Gaps 0;

Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 RSDHLR 7
Db 1 RSDHLR 7

RESULT 220

US-09-990-186-3708
; Sequence 3708, Application US/09990186
; Publication No. US2003006675A1
; GENERAL INFORMATION:
; APPLICANT: LIU, Qiang
; TITLE OF INVENTION: POSITION DEPENDENT RECOGNITION OF GNN NUCLEOTIDE
; FILE REFERENCE: 8325-0011.21 / S11-US3
; CURRENT APPLICATION NUMBER: US/09/990,186
; CURRENT FILING DATE: 2001-11-20
; NUMBER OF SEQ ID NOS: 4085
; SOFTWARE: Patentin Ver. 2.0
; SEQ ID NO 3708
; LENGTH: 7
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: example ZFP
US-09-990-186-3708

Query Match

100.0%; Score 36; DB 11; Length 7;

Best Local Similarity 100.0%; Pred. No. 7e+05; 0; Indels 0; Gaps 0;

Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 RSDHLSR 7
Db 1 RSDHLSR 7

RESULT 221
US-09-990-186-3800

; Sequence 3800, Application US/09990186
; Publication No. US20030068675A1

; GENERAL INFORMATION:

; APPLICANT: LIU, Qiang

; TITLE OF INVENTION: POSITION DEPENDENT RECOGNITION OF GNN NUCLEOTIDE

; FILE REFERENCE: 8325-0011.21 / S11-US3

; CURRENT APPLICATION NUMBER: US/09/990,186

; CURRENT FILING DATE: 2001-11-20

; NUMBER OF SEQ ID NOS: 4085

; SOFTWARE: PatentIn Ver. 2.0

; SEQ ID NO 3800

; LENGTH: 7

; TYPE: PRT

; ORGANISM: Artificial Sequence

; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: example ZFP

US-09-990-186-3800

Query Match 100.0%; Score 36; DB 11; Length 7;
Best Local Similarity 100.0%; Pred. No. 7e+05;

Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 RSDHLSR 7
Db 1 RSDHLSR 7

RESULT 222

US-09-990-186-3802

; Sequence 3802, Application US/09990186

; Publication No. US20030068675A1

; GENERAL INFORMATION:

; APPLICANT: LIU, Qiang

; TITLE OF INVENTION: POSITION DEPENDENT RECOGNITION OF GNN NUCLEOTIDE

; FILE REFERENCE: 8325-0011.21 / S11-US3

; CURRENT APPLICATION NUMBER: US/09/990,186

; CURRENT FILING DATE: 2001-11-20

; NUMBER OF SEQ ID NOS: 4085

; SOFTWARE: PatentIn Ver. 2.0

; SEQ ID NO 3802

; LENGTH: 7

; TYPE: PRT

; ORGANISM: Artificial Sequence

; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: example ZFP

US-09-990-186-3802

Query Match 100.0%; Score 36; DB 11; Length 7;
Best Local Similarity 100.0%; Pred. No. 7e+05;

Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 RSDHLSR 7
Db 1 RSDHLSR 7

RESULT 223

US-09-990-186-3803

; Sequence 3803, Application US/09990186

; Publication No. US20030068675A1

; GENERAL INFORMATION:

; APPLICANT: LIU, Qiang

; TITLE OF INVENTION: POSITION DEPENDENT RECOGNITION OF GNN NUCLEOTIDE

; FILE REFERENCE: 8325-0011.21 / S11-US3

; CURRENT APPLICATION NUMBER: US/09/990,186

; CURRENT FILING DATE: 2001-11-20

; NUMBER OF SEQ ID NOS: 4085

; SOFTWARE: PatentIn Ver. 2.0

; SEQ ID NO 3815

; LENGTH: 7

; TYPE: PRT

; ORGANISM: Artificial Sequence

; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: example ZFP

; TITLE OF INVENTION: POSITION DEPENDENT RECOGNITION OF GNN NUCLEOTIDE

; FILE REFERENCE: 8325-0011.21 / S11-US3

; CURRENT APPLICATION NUMBER: US/09/990,186

; CURRENT FILING DATE: 2001-11-20

; NUMBER OF SEQ ID NOS: 4085

; SOFTWARE: PatentIn Ver. 2.0

; SEQ ID NO 3803

; LENGTH: 7

; TYPE: PRT

; ORGANISM: Artificial Sequence

; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: example ZFP

US-09-990-186-3803

Query Match 100.0%; Score 36; DB 11; Length 7;
Best Local Similarity 100.0%; Pred. No. 7e+05;

Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 RSDHLSR 7
Db 1 RSDHLSR 7

RESULT 224

US-09-990-186-3814

; Sequence 3814, Application US/09990186

; Publication No. US20030068675A1

; GENERAL INFORMATION:

; APPLICANT: LIU, Qiang

; TITLE OF INVENTION: POSITION DEPENDENT RECOGNITION OF GNN NUCLEOTIDE

; FILE REFERENCE: 8325-0011.21 / S11-US3

; CURRENT APPLICATION NUMBER: US/09/990,186

; CURRENT FILING DATE: 2001-11-20

; NUMBER OF SEQ ID NOS: 4085

; SOFTWARE: PatentIn Ver. 2.0

; SEQ ID NO 3814

; LENGTH: 7

; TYPE: PRT

; ORGANISM: Artificial Sequence

; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: example ZFP

US-09-990-186-3814

Query Match 100.0%; Score 36; DB 11; Length 7;
Best Local Similarity 100.0%; Pred. No. 7e+05;

Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 RSDHLSR 7
Db 1 RSDHLSR 7

RESULT 225

US-09-990-186-3815

; Sequence 3815, Application US/09990186

; Publication No. US20030068675A1

; GENERAL INFORMATION:

; APPLICANT: LIU, Qiang

; TITLE OF INVENTION: POSITION DEPENDENT RECOGNITION OF GNN NUCLEOTIDE

; FILE REFERENCE: 8325-0011.21 / S11-US3

; CURRENT APPLICATION NUMBER: US/09/990,186

; CURRENT FILING DATE: 2001-11-20

; NUMBER OF SEQ ID NOS: 4085

; SOFTWARE: PatentIn Ver. 2.0

; SEQ ID NO 3815

; LENGTH: 7

; TYPE: PRT

; ORGANISM: Artificial Sequence

; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: example ZFP

US-09-990-186-3815

Query Match 100.0%; Score 36; DB 11; Length 7;
Best Local Similarity 100.0%; Pred. No. 7e+05;
Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 RSDHLSR 7
Db 1 RSDHLSR 7

RESULT 226

US-09-990-186-3816
; Sequence 3816, Application US/09990186
; Publication No. US20030068675A1
; GENERAL INFORMATION:
; APPLICANT: LIU, Qiang
; TITLE OF INVENTION: POSITION DEPENDENT RECOGNITION OF GNN NUCLEOTIDE
; FILE REFERENCE: 8325-0011.21 / S11-US3
; CURRENT APPLICATION NUMBER: US/09/990,186
; CURRENT FILING DATE: 2001-11-20
; NUMBER OF SEQ ID NOS: 4085
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 3816
; LENGTH: 7
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: example ZFP
US-09-990-186-3816

Query Match 100.0%; Score 36; DB 11; Length 7;
Best Local Similarity 100.0%; Pred. No. 7e+05;
Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 RSDHLSR 7
Db 1 RSDHLSR 7

RESULT 227

US-09-990-186-3859
; Sequence 3859, Application US/09990186
; Publication No. US20030068675A1
; GENERAL INFORMATION:
; APPLICANT: LIU, Qiang
; TITLE OF INVENTION: POSITION DEPENDENT RECOGNITION OF GNN NUCLEOTIDE
; FILE REFERENCE: 8325-0011.21 / S11-US3
; CURRENT APPLICATION NUMBER: US/09/990,186
; CURRENT FILING DATE: 2001-11-20
; NUMBER OF SEQ ID NOS: 4085
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 3859
; LENGTH: 7
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: example ZFP
US-09-990-186-3859

Query Match 100.0%; Score 36; DB 11; Length 7;
Best Local Similarity 100.0%; Pred. No. 7e+05;
Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 RSDHLSR 7
Db 1 RSDHLSR 7

RESULT 228
US-09-990-186-3860

; Sequence 3860, Application US/09990186

; Publication No. US20030068675A1
; GENERAL INFORMATION:
; APPLICANT: LIU, Qiang
; TITLE OF INVENTION: POSITION DEPENDENT RECOGNITION OF GNN NUCLEOTIDE
; FILE REFERENCE: 8325-0011.21 / S11-US3
; CURRENT APPLICATION NUMBER: US/09/990,186
; CURRENT FILING DATE: 2001-11-20
; NUMBER OF SEQ ID NOS: 4085
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 3860
; LENGTH: 7
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: example ZFP
US-09-990-186-3860

Query Match 100.0%; Score 36; DB 11; Length 7;
Best Local Similarity 100.0%; Pred. No. 7e+05;
Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 RSDHLSR 7
Db 1 RSDHLSR 7

RESULT 229

US-09-990-186-3881
; Sequence 3881, Application US/09990186
; Publication No. US20030068675A1
; GENERAL INFORMATION:
; APPLICANT: LIU, Qiang
; TITLE OF INVENTION: POSITION DEPENDENT RECOGNITION OF GNN NUCLEOTIDE
; FILE REFERENCE: 8325-0011.21 / S11-US3
; CURRENT APPLICATION NUMBER: US/09/990,186
; CURRENT FILING DATE: 2001-11-20
; NUMBER OF SEQ ID NOS: 4085
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 3881
; LENGTH: 7
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: example ZFP
US-09-990-186-3881

Query Match 100.0%; Score 36; DB 11; Length 7;
Best Local Similarity 100.0%; Pred. No. 7e+05;
Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 RSDHLSR 7
Db 1 RSDHLSR 7

RESULT 230

US-09-990-186-3882
; Sequence 3882, Application US/09990186
; Publication No. US20030068675A1
; GENERAL INFORMATION:
; APPLICANT: LIU, Qiang
; TITLE OF INVENTION: POSITION DEPENDENT RECOGNITION OF GNN NUCLEOTIDE
; FILE REFERENCE: 8325-0011.21 / S11-US3
; CURRENT APPLICATION NUMBER: US/09/990,186
; CURRENT FILING DATE: 2001-11-20
; NUMBER OF SEQ ID NOS: 4085
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 3882
; LENGTH: 7

```

; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: example ZFP
US-09-990-186-3892

Query Match
Best Local Similarity 100.0%; Score 36; DB 11; Length 7;
Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 RSDHLR 7
Db 1 RSDHLR 7

RESULT 231
US-09-990-186-3890
; Sequence 3890, Application US/09990186
; Publication No. US20030068675A1
; GENERAL INFORMATION:
; APPLICANT: LIU, Qiang
; TITLE OF INVENTION: POSITION DEPENDENT RECOGNITION OF GNN NUCLEOTIDE
; FILE REFERENCE: 8325-0011.21 / S11-US3
; CURRENT APPLICATION NUMBER: US/09/990,186
; CURRENT FILING DATE: 2001-11-20
; NUMBER OF SEQ ID NOS: 4085
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 3890
; LENGTH: 7
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: example ZFP
US-09-990-186-3890

Query Match
Best Local Similarity 100.0%; Score 36; DB 11; Length 7;
Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 RSDHLR 7
Db 1 RSDHLR 7

RESULT 232
US-09-990-186-3892
; Sequence 3892, Application US/09990186
; Publication No. US20030068675A1
; GENERAL INFORMATION:
; APPLICANT: LIU, Qiang
; TITLE OF INVENTION: POSITION DEPENDENT RECOGNITION OF GNN NUCLEOTIDE
; FILE REFERENCE: 8325-0011.21 / S11-US3
; CURRENT APPLICATION NUMBER: US/09/990,186
; CURRENT FILING DATE: 2001-11-20
; NUMBER OF SEQ ID NOS: 4085
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 3892
; LENGTH: 7
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: example ZFP
US-09-990-186-3892

Query Match
Best Local Similarity 100.0%; Score 36; DB 11; Length 7;
Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 RSDHLR 7
Db 1 RSDHLR 7
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RESULT 233
US-09-990-186-3951
; Sequence 3951, Application US/09990186
; Publication No. US20030068675A1
; GENERAL INFORMATION:
; APPLICANT: LIU, Qiang
; TITLE OF INVENTION: POSITION DEPENDENT RECOGNITION OF GNN NUCLEOTIDE
; FILE REFERENCE: 8325-0011.21 / S11-US3
; CURRENT APPLICATION NUMBER: US/09/990,186
; CURRENT FILING DATE: 2001-11-20
; NUMBER OF SEQ ID NOS: 4085
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 3951
; LENGTH: 7
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: example ZFP
US-09-990-186-3951

Query Match
Best Local Similarity 100.0%; Score 36; DB 11; Length 7;
Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 RSDHLR 7
Db 1 RSDHLR 7

RESULT 234
US-09-990-186-3952
; Sequence 3952, Application US/09990186
; Publication No. US20030068675A1
; GENERAL INFORMATION:
; APPLICANT: LIU, Qiang
; TITLE OF INVENTION: POSITION DEPENDENT RECOGNITION OF GNN NUCLEOTIDE
; FILE REFERENCE: 8325-0011.21 / S11-US3
; CURRENT APPLICATION NUMBER: US/09/990,186
; CURRENT FILING DATE: 2001-11-20
; NUMBER OF SEQ ID NOS: 4085
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 3952
; LENGTH: 7
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: example ZFP
US-09-990-186-3952

Query Match
Best Local Similarity 100.0%; Score 36; DB 11; Length 7;
Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 RSDHLR 7
Db 1 RSDHLR 7

RESULT 235
US-09-990-186-3999
; Sequence 3999, Application US/09990186
; Publication No. US20030068675A1
; GENERAL INFORMATION:
; APPLICANT: LIU, Qiang
; TITLE OF INVENTION: POSITION DEPENDENT RECOGNITION OF GNN NUCLEOTIDE
; FILE REFERENCE: 8325-0011.21 / S11-US3
; CURRENT APPLICATION NUMBER: US/09/990,186
; CURRENT FILING DATE: 2001-11-20
```

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; NUMBER OF SEQ ID NOS: 4085
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 3999
; LENGTH: 7
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: example ZFP
US-09-990-186-3999

Query Match
Best Local Similarity 100.0%; Score 36; DB 11; Length 7;
Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 RSDHLSR 7
Db 1 RSDHLSR 7

RESULT 236
US-09-990-186-4006
; Sequence 4006, Application US/09990186
; Publication No. US20030066675A1
; GENERAL INFORMATION:
; APPLICANT: LIT, Qiang
; TITLE OF INVENTION: POSITION DEPENDENT RECOGNITION OF GNN NUCLEOTIDE
; FILE REFERENCE: 8325-0011.21 / S11-US3
; CURRENT APPLICATION NUMBER: US/09/990,186
; CURRENT FILING DATE: 2001-11-20
; NUMBER OF SEQ ID NOS: 4085
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 4006
; LENGTH: 7
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: example ZFP
US-09-990-186-4006

Query Match
Best Local Similarity 100.0%; Score 36; DB 11; Length 7;
Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 RSDHLSR 7
Db 1 RSDHLSR 7

RESULT 237
US-09-989-994-229
; Sequence 229, Application US/09989994
; Publication No. US20030104526A1
; GENERAL INFORMATION:
; APPLICANT: LIT, Qiang
; TITLE OF INVENTION: POSITION DEPENDENT RECOGNITION OF GNN NUCLEOTIDE
; FILE REFERENCE: 8325-0011.20 / S11-US2
; CURRENT APPLICATION NUMBER: US/09/989,994
; CURRENT FILING DATE: 2001-11-20
; NUMBER OF SEQ ID NOS: 4085
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 229
; LENGTH: 7
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: example ZFP
US-09-989-994-229

Query Match
Best Local Similarity 100.0%; Score 36; DB 11; Length 7;
Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
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QY 1 RSDHLSR 7
Db 1 RSDHLSR 7

RESULT 238
US-09-989-994-230
; Sequence 230, Application US/09989994
; Publication No. US20030104526A1
; GENERAL INFORMATION:
; APPLICANT: LIT, Qiang
; TITLE OF INVENTION: POSITION DEPENDENT RECOGNITION OF GNN NUCLEOTIDE
; FILE REFERENCE: 8325-0011.20 / S11-US2
; CURRENT APPLICATION NUMBER: US/09/989,994
; CURRENT FILING DATE: 2001-11-20
; NUMBER OF SEQ ID NOS: 4085
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 230
; LENGTH: 7
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: example ZFP
US-09-989-994-230

Query Match
Best Local Similarity 100.0%; Score 36; DB 11; Length 7;
Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 RSDHLSR 7
Db 1 RSDHLSR 7

RESULT 239
US-09-989-994-234
; Sequence 234, Application US/09989994
; Publication No. US20030104526A1
; GENERAL INFORMATION:
; APPLICANT: LIT, Qiang
; TITLE OF INVENTION: POSITION DEPENDENT RECOGNITION OF GNN NUCLEOTIDE
; FILE REFERENCE: 8325-0011.20 / S11-US2
; CURRENT APPLICATION NUMBER: US/09/989,994
; CURRENT FILING DATE: 2001-11-20
; NUMBER OF SEQ ID NOS: 4085
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 234
; LENGTH: 7
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: example ZFP
US-09-989-994-234

Query Match
Best Local Similarity 100.0%; Score 36; DB 11; Length 7;
Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 RSDHLSR 7
Db 1 RSDHLSR 7

RESULT 240
US-09-989-994-238
; Sequence 238, Application US/09989994
; Publication No. US20030104526A1
; GENERAL INFORMATION:
; APPLICANT: LIT, Qiang
; TITLE OF INVENTION: POSITION DEPENDENT RECOGNITION OF GNN NUCLEOTIDE
```

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; TITLE OF INVENTION: TRIPLETS BY ZINC FINGERS
; FILE REFERENCE: 8325-0011.20 / S11-US2
; CURRENT APPLICATION NUMBER: US/09/989,994
; CURRENT FILING DATE: 2001-11-20
; NUMBER OF SEQ ID NOS: 4085
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 238
; LENGTH: 7
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: example ZFP
US-09-989-994-238

Query Match
Best Local Similarity 100.0%; Score 36; DB 11; Length 7;
Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 RSDHLSR 7
DB 1 RSDHLSR 7

RESULT 241
US-09-989-994-239
; Sequence 239, Application US/09989994
; Publication No. US20030104526A1
; GENERAL INFORMATION:
; APPLICANT: LIU, Qiang
; TITLE OF INVENTION: POSITION DEPENDENT RECOGNITION OF GNN NUCLEOTIDE
; FILE REFERENCE: 8325-0011.20 / S11-US2
; CURRENT APPLICATION NUMBER: US/09/989,994
; CURRENT FILING DATE: 2001-11-20
; NUMBER OF SEQ ID NOS: 4085
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 239
; LENGTH: 7
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: example ZFP
US-09-989-994-239

Query Match
Best Local Similarity 100.0%; Score 36; DB 11; Length 7;
Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 RSDHLSR 7
DB 1 RSDHLSR 7

RESULT 242
US-09-989-994-244
; Sequence 244, Application US/09989994
; Publication No. US20030104526A1
; GENERAL INFORMATION:
; APPLICANT: LIU, Qiang
; TITLE OF INVENTION: POSITION DEPENDENT RECOGNITION OF GNN NUCLEOTIDE
; FILE REFERENCE: 8325-0011.20 / S11-US2
; CURRENT APPLICATION NUMBER: US/09/989,994
; CURRENT FILING DATE: 2001-11-20
; NUMBER OF SEQ ID NOS: 4085
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 244
; LENGTH: 7
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: example ZFP
US-09-989-994-244
```

```

Query Match
Best Local Similarity 100.0%; Score 36; DB 11; Length 7;
Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 RSDHLSR 7
DB 1 RSDHLSR 7

RESULT 243
US-09-989-994-420
; Sequence 420, Application US/09989994
; Publication No. US20030104526A1
; GENERAL INFORMATION:
; APPLICANT: LIU, Qiang
; TITLE OF INVENTION: POSITION DEPENDENT RECOGNITION OF GNN NUCLEOTIDE
; FILE REFERENCE: 8325-0011.20 / S11-US2
; CURRENT APPLICATION NUMBER: US/09/989,994
; CURRENT FILING DATE: 2001-11-20
; NUMBER OF SEQ ID NOS: 4085
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 420
; LENGTH: 7
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: example ZFP
US-09-989-994-420

Query Match
Best Local Similarity 100.0%; Score 36; DB 11; Length 7;
Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 RSDHLSR 7
DB 1 RSDHLSR 7

RESULT 244
US-09-989-994-425
; Sequence 425, Application US/09989994
; Publication No. US20030104526A1
; GENERAL INFORMATION:
; APPLICANT: LIU, Qiang
; TITLE OF INVENTION: POSITION DEPENDENT RECOGNITION OF GNN NUCLEOTIDE
; FILE REFERENCE: 8325-0011.20 / S11-US2
; CURRENT APPLICATION NUMBER: US/09/989,994
; CURRENT FILING DATE: 2001-11-20
; NUMBER OF SEQ ID NOS: 4085
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 425
; LENGTH: 7
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: example ZFP
US-09-989-994-425

Query Match
Best Local Similarity 100.0%; Score 36; DB 11; Length 7;
Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 RSDHLSR 7
DB 1 RSDHLSR 7

RESULT 245
US-09-989-994-426
; Sequence 426, Application US/09989994
```

; Publication No. US20030104526A1
; GENERAL INFORMATION:
; APPLICANT: LIU, Qiang
; TITLE OF INVENTION: POSITION DEPENDENT RECOGNITION OF GNN NUCLEOTIDE
; FILE REFERENCE: 8325-0011.20 / S11-US2
; CURRENT APPLICATION NUMBER: US/09/989,994
; CURRENT FILING DATE: 2001-11-20
; NUMBER OF SEQ ID NOS: 4085
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 426
; LENGTH: 7
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: example ZFP
US-09-989-994-426

Query Match 100.0%; Score 36; DB 11; Length 7;
Best Local Similarity 100.0%; Pred. No. 7e+05; Indels 0; Gaps 0;
Matches 7; Conservative 0; Mismatches 0;

CY 1 RSDHLSR 7
Db 1 RSDHLSR 7

RESULT 246
US-09-989-994-428
; Sequence 428, Application US/09989994
; Publication No. US20030104526A1
; GENERAL INFORMATION:
; APPLICANT: LIU, Qiang
; TITLE OF INVENTION: POSITION DEPENDENT RECOGNITION OF GNN NUCLEOTIDE
; FILE REFERENCE: 8325-0011.20 / S11-US2
; CURRENT APPLICATION NUMBER: US/09/989,994
; CURRENT FILING DATE: 2001-11-20
; NUMBER OF SEQ ID NOS: 4085
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 428
; LENGTH: 7
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: example ZFP
US-09-989-994-428

Query Match 100.0%; Score 36; DB 11; Length 7;
Best Local Similarity 100.0%; Pred. No. 7e+05; Indels 0; Gaps 0;
Matches 7; Conservative 0; Mismatches 0;

CY 1 RSDHLSR 7
Db 1 RSDHLSR 7

RESULT 247
US-09-989-994-434
; Sequence 434, Application US/09989994
; Publication No. US20030104526A1
; GENERAL INFORMATION:
; APPLICANT: LIU, Qiang
; TITLE OF INVENTION: POSITION DEPENDENT RECOGNITION OF GNN NUCLEOTIDE
; FILE REFERENCE: 8325-0011.20 / S11-US2
; CURRENT APPLICATION NUMBER: US/09/989,994
; CURRENT FILING DATE: 2001-11-20
; NUMBER OF SEQ ID NOS: 4085
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 434
; LENGTH: 7
; TYPE: PRT

; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: example ZFP
US-09-989-994-434

Query Match 100.0%; Score 36; DB 11; Length 7;
Best Local Similarity 100.0%; Pred. No. 7e+05; Indels 0; Gaps 0;
Matches 7; Conservative 0; Mismatches 0;

CY 1 RSDHLSR 7
Db 1 RSDHLSR 7

RESULT 248
US-09-989-994-832
; Sequence 832, Application US/09989994
; Publication No. US20030104526A1
; GENERAL INFORMATION:
; APPLICANT: LIU, Qiang
; TITLE OF INVENTION: POSITION DEPENDENT RECOGNITION OF GNN NUCLEOTIDE
; FILE REFERENCE: 8325-0011.20 / S11-US2
; CURRENT APPLICATION NUMBER: US/09/989,994
; CURRENT FILING DATE: 2001-11-20
; NUMBER OF SEQ ID NOS: 4085
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 832
; LENGTH: 7
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: example ZFP
US-09-989-994-832

Query Match 100.0%; Score 36; DB 11; Length 7;
Best Local Similarity 100.0%; Pred. No. 7e+05; Indels 0; Gaps 0;
Matches 7; Conservative 0; Mismatches 0;

CY 1 RSDHLSR 7
Db 1 RSDHLSR 7

RESULT 249
US-09-989-994-840
; Sequence 840, Application US/09989994
; Publication No. US20030104526A1
; GENERAL INFORMATION:
; APPLICANT: LIU, Qiang
; TITLE OF INVENTION: POSITION DEPENDENT RECOGNITION OF GNN NUCLEOTIDE
; FILE REFERENCE: 8325-0011.20 / S11-US2
; CURRENT APPLICATION NUMBER: US/09/989,994
; CURRENT FILING DATE: 2001-11-20
; NUMBER OF SEQ ID NOS: 4085
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 840
; LENGTH: 7
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: example ZFP
US-09-989-994-840

Query Match 100.0%; Score 36; DB 11; Length 7;
Best Local Similarity 100.0%; Pred. No. 7e+05; Indels 0; Gaps 0;
Matches 7; Conservative 0; Mismatches 0;

CY 1 RSDHLSR 7
Db 1 RSDHLSR 7

```
RESULT 250
US-09-989-994-888
; Sequence 888, Application US/09989994
; Publication No. US20030104526A1
; GENERAL INFORMATION:
; APPLICANT: LIU, Qiang
; TITLE OF INVENTION: POSITION DEPENDENT RECOGNITION OF GNN NUCLEOTIDE
; FILE REFERENCE: 8325-0011.20 / S11-US2
; CURRENT APPLICATION NUMBER: US/09/989,994
; CURRENT FILING DATE: 2001-11-20
; NUMBER OF SEQ ID NOS: 4085
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 888
; LENGTH: 7
; TYPE: PRT
; ORGANISM: Artificial Sequence
; OTHER INFORMATION: Description of Artificial Sequence: example ZFP
US-09-989-994-888
```

```
Query Match
Best Local Similarity 100.0%; Score 36; DB 11; Length 7;
Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
```

```
QY 1 RSDHLR 7
1 RSDHLR 7
DB 1 RSDHLR 7

RESULT 251
US-09-989-994-1001
; Sequence 1001, Application US/09989994
; Publication No. US20030104526A1
; GENERAL INFORMATION:
; APPLICANT: LIU, Qiang
; TITLE OF INVENTION: POSITION DEPENDENT RECOGNITION OF GNN NUCLEOTIDE
; FILE REFERENCE: 8325-0011.20 / S11-US2
; CURRENT APPLICATION NUMBER: US/09/989,994
; CURRENT FILING DATE: 2001-11-20
; NUMBER OF SEQ ID NOS: 4085
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 1001
; LENGTH: 7
; TYPE: PRT
; ORGANISM: Artificial Sequence
; OTHER INFORMATION: Description of Artificial Sequence: example ZFP
US-09-989-994-1001
```

```
Query Match
Best Local Similarity 100.0%; Score 36; DB 11; Length 7;
Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 RSDHLR 7
1 RSDHLR 7
DB 1 RSDHLR 7

RESULT 252
US-09-989-994-1089
; Sequence 1089, Application US/09989994
; Publication No. US20030104526A1
; GENERAL INFORMATION:
; APPLICANT: LIU, Qiang
; TITLE OF INVENTION: POSITION DEPENDENT RECOGNITION OF GNN NUCLEOTIDE
; FILE REFERENCE: 8325-0011.20 / S11-US2
; CURRENT APPLICATION NUMBER: US/09/989,994
; CURRENT FILING DATE: 2001-11-20
; NUMBER OF SEQ ID NOS: 4085
```

```
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 1089
; LENGTH: 7
; TYPE: PRT
; ORGANISM: Artificial Sequence
; OTHER INFORMATION: Description of Artificial Sequence: example ZFP
US-09-989-994-1089

Query Match
Best Local Similarity 100.0%; Score 36; DB 11; Length 7;
Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
```

```
QY 1 RSDHLR 7
1 RSDHLR 7
DB 1 RSDHLR 7

RESULT 253
US-09-989-994-1090
; Sequence 1090, Application US/09989994
; Publication No. US20030104526A1
; GENERAL INFORMATION:
; APPLICANT: LIU, Qiang
; TITLE OF INVENTION: POSITION DEPENDENT RECOGNITION OF GNN NUCLEOTIDE
; FILE REFERENCE: 8325-0011.20 / S11-US2
; CURRENT APPLICATION NUMBER: US/09/989,994
; CURRENT FILING DATE: 2001-11-20
; NUMBER OF SEQ ID NOS: 4085
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 1090
; LENGTH: 7
; TYPE: PRT
; ORGANISM: Artificial Sequence
; OTHER INFORMATION: Description of Artificial Sequence: example ZFP
US-09-989-994-1090
```

```
Query Match
Best Local Similarity 100.0%; Score 36; DB 11; Length 7;
Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 RSDHLR 7
1 RSDHLR 7
DB 1 RSDHLR 7

RESULT 254
US-09-989-994-1091
; Sequence 1091, Application US/09989994
; Publication No. US20030104526A1
; GENERAL INFORMATION:
; APPLICANT: LIU, Qiang
; TITLE OF INVENTION: POSITION DEPENDENT RECOGNITION OF GNN NUCLEOTIDE
; FILE REFERENCE: 8325-0011.20 / S11-US2
; CURRENT APPLICATION NUMBER: US/09/989,994
; CURRENT FILING DATE: 2001-11-20
; NUMBER OF SEQ ID NOS: 4085
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 1091
; LENGTH: 7
; TYPE: PRT
; ORGANISM: Artificial Sequence
; OTHER INFORMATION: Description of Artificial Sequence: example ZFP
US-09-989-994-1091
```

```
Query Match
Best Local Similarity 100.0%; Score 36; DB 11; Length 7;
Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
```



```
Query Match      100.0%; Score 36; DB 11; Length 7;
Best Local Similarity 100.0%; Pred. No. 7e+05;
Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY      1 RSDHLSR 7
        |||||
Db      1 RSDHLSR 7

RESULT 260
US-09-989-994-1199
; Sequence 1199, Application US/09989994
; Publication No. US20030104526A1
; GENERAL INFORMATION:
; APPLICANT: Liu, Qiang
; TITLE OF INVENTION: POSITION DEPENDENT RECOGNITION OF GNN NUCLEOTIDE
; FILE REFERENCE: 8325-0011.20 / S11-US2
; CURRENT APPLICATION NUMBER: US/09/989,994
; CURRENT FILING DATE: 2001-11-20
; NUMBER OF SEQ ID NOS: 4085
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 1199
; LENGTH: 7
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: example ZFP
US-09-989-994-1199

Query Match      100.0%; Score 36; DB 11; Length 7;
Best Local Similarity 100.0%; Pred. No. 7e+05;
Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY      1 RSDHLSR 7
        |||||
Db      1 RSDHLSR 7

RESULT 261
US-09-989-994-1207
; Sequence 1207, Application US/09989994
; Publication No. US20030104526A1
; GENERAL INFORMATION:
; APPLICANT: Liu, Qiang
; TITLE OF INVENTION: POSITION DEPENDENT RECOGNITION OF GNN NUCLEOTIDE
; FILE REFERENCE: 8325-0011.20 / S11-US2
; CURRENT APPLICATION NUMBER: US/09/989,994
; CURRENT FILING DATE: 2001-11-20
; NUMBER OF SEQ ID NOS: 4085
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 1207
; LENGTH: 7
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: example ZFP
US-09-989-994-1207

Query Match      100.0%; Score 36; DB 11; Length 7;
Best Local Similarity 100.0%; Pred. No. 7e+05;
Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY      1 RSDHLSR 7
        |||||
Db      1 RSDHLSR 7

RESULT 262
US-09-989-994-1219
; Sequence 1219, Application US/09989994
; Publication No. US20030104526A1
; GENERAL INFORMATION:
; APPLICANT: Liu, Qiang
; TITLE OF INVENTION: POSITION DEPENDENT RECOGNITION OF GNN NUCLEOTIDE
; FILE REFERENCE: 8325-0011.20 / S11-US2
; CURRENT APPLICATION NUMBER: US/09/989,994
; CURRENT FILING DATE: 2001-11-20
; NUMBER OF SEQ ID NOS: 4085
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 1219
; LENGTH: 7
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: example ZFP
US-09-989-994-1219

Query Match      100.0%; Score 36; DB 11; Length 7;
Best Local Similarity 100.0%; Pred. No. 7e+05;
Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY      1 RSDHLSR 7
        |||||
Db      1 RSDHLSR 7

RESULT 263
US-09-989-994-1220
; Sequence 1220, Application US/09989994
; Publication No. US20030104526A1
; GENERAL INFORMATION:
; APPLICANT: Liu, Qiang
; TITLE OF INVENTION: POSITION DEPENDENT RECOGNITION OF GNN NUCLEOTIDE
; FILE REFERENCE: 8325-0011.20 / S11-US2
; CURRENT APPLICATION NUMBER: US/09/989,994
; CURRENT FILING DATE: 2001-11-20
; NUMBER OF SEQ ID NOS: 4085
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 1220
; LENGTH: 7
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: example ZFP
US-09-989-994-1220

Query Match      100.0%; Score 36; DB 11; Length 7;
Best Local Similarity 100.0%; Pred. No. 7e+05;
Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY      1 RSDHLSR 7
        |||||
Db      1 RSDHLSR 7

RESULT 264
US-09-989-994-1224
; Sequence 1224, Application US/09989994
; Publication No. US20030104526A1
; GENERAL INFORMATION:
; APPLICANT: Liu, Qiang
; TITLE OF INVENTION: POSITION DEPENDENT RECOGNITION OF GNN NUCLEOTIDE
; FILE REFERENCE: 8325-0011.20 / S11-US2
; CURRENT APPLICATION NUMBER: US/09/989,994
; CURRENT FILING DATE: 2001-11-20
; NUMBER OF SEQ ID NOS: 4085
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 1224
; LENGTH: 7
; TYPE: PRT
; ORGANISM: Artificial Sequence
```

FEATURE:
OTHER INFORMATION: Description of Artificial Sequence: example ZFP
US-09-989-994-1224

Query Match
Best Local Similarity 100.0%; Score 36; DB 11; Length 7;
Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 RSDHLSR 7
Db 1 RSDHLSR 7

RESULT 265
US-09-989-994-1225
Sequence 1225, Application US/09989994
Publication No. US20030104526A1
GENERAL INFORMATION:
APPLICANT: LIU, Qiang
TITLE OF INVENTION: POSITION DEPENDENT RECOGNITION OF GNN NUCLEOTIDE
FILE REFERENCE: 8325-0011.20 / S11-US2
CURRENT APPLICATION NUMBER: US/09/989,994
CURRENT FILING DATE: 2001-11-20
NUMBER OF SEQ ID NOS: 4085
SOFTWARE: PatentIn Ver. 2.0
SEQ ID NO 1225
LENGTH: 7
TYPE: PRT
ORGANISM: Artificial Sequence
FEATURE:
OTHER INFORMATION: Description of Artificial Sequence: example ZFP
US-09-989-994-1225

Query Match
Best Local Similarity 100.0%; Score 36; DB 11; Length 7;
Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 RSDHLSR 7
Db 1 RSDHLSR 7

RESULT 266
US-09-989-994-1234
Sequence 1234, Application US/09989994
Publication No. US20030104526A1
GENERAL INFORMATION:
APPLICANT: LIU, Qiang
TITLE OF INVENTION: POSITION DEPENDENT RECOGNITION OF GNN NUCLEOTIDE
FILE REFERENCE: 8325-0011.20 / S11-US2
CURRENT APPLICATION NUMBER: US/09/989,994
CURRENT FILING DATE: 2001-11-20
NUMBER OF SEQ ID NOS: 4085
SOFTWARE: PatentIn Ver. 2.0
SEQ ID NO 1234
LENGTH: 7
TYPE: PRT
ORGANISM: Artificial Sequence
FEATURE:
OTHER INFORMATION: Description of Artificial Sequence: example ZFP
US-09-989-994-1234

Query Match
Best Local Similarity 100.0%; Score 36; DB 11; Length 7;
Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 RSDHLSR 7
Db 1 RSDHLSR 7

RESULT 267
US-09-989-994-1260
Sequence 1260, Application US/09989994
Publication No. US20030104526A1
GENERAL INFORMATION:
APPLICANT: LIU, Qiang
TITLE OF INVENTION: POSITION DEPENDENT RECOGNITION OF GNN NUCLEOTIDE
FILE REFERENCE: 8325-0011.20 / S11-US2
CURRENT APPLICATION NUMBER: US/09/989,994
CURRENT FILING DATE: 2001-11-20
NUMBER OF SEQ ID NOS: 4085
SOFTWARE: PatentIn Ver. 2.0
SEQ ID NO 1260
LENGTH: 7
TYPE: PRT
ORGANISM: Artificial Sequence
FEATURE:
OTHER INFORMATION: Description of Artificial Sequence: example ZFP
US-09-989-994-1260

Query Match
Best Local Similarity 100.0%; Score 36; DB 11; Length 7;
Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 RSDHLSR 7
Db 1 RSDHLSR 7

RESULT 268
US-09-989-994-1471
Sequence 1471, Application US/09989994
Publication No. US20030104526A1
GENERAL INFORMATION:
APPLICANT: LIU, Qiang
TITLE OF INVENTION: POSITION DEPENDENT RECOGNITION OF GNN NUCLEOTIDE
FILE REFERENCE: 8325-0011.20 / S11-US2
CURRENT APPLICATION NUMBER: US/09/989,994
CURRENT FILING DATE: 2001-11-20
NUMBER OF SEQ ID NOS: 4085
SOFTWARE: PatentIn Ver. 2.0
SEQ ID NO 1471
LENGTH: 7
TYPE: PRT
ORGANISM: Artificial Sequence
FEATURE:
OTHER INFORMATION: Description of Artificial Sequence: example ZFP
US-09-989-994-1471

Query Match
Best Local Similarity 100.0%; Score 36; DB 11; Length 7;
Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 RSDHLSR 7
Db 1 RSDHLSR 7

RESULT 269
US-09-989-994-1529
Sequence 1529, Application US/09989994
Publication No. US20030104526A1
GENERAL INFORMATION:
APPLICANT: LIU, Qiang
TITLE OF INVENTION: POSITION DEPENDENT RECOGNITION OF GNN NUCLEOTIDE
FILE REFERENCE: 8325-0011.20 / S11-US2
CURRENT APPLICATION NUMBER: US/09/989,994
CURRENT FILING DATE: 2001-11-20
NUMBER OF SEQ ID NOS: 4085
SOFTWARE: PatentIn Ver. 2.0

```
; SEQ ID NO 1529
; LENGTH: 7
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: example ZFP
US-09-989-994-1529

Query Match          100.0%; Score 36; DB 11; Length 7;
Best Local Similarity 100.0%; Pred. No. 7e+05;
Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 RSDHLSR 7
   |||||
   |||||
Db 1 RSDHLSR 7

RESULT 270
US-09-989-994-1530
; Sequence 1530, Application US/09989994
; Publication No. US20030104526A1
; GENERAL INFORMATION:
; APPLICANT: LIU, Qiang
; TITLE OF INVENTION: POSITION DEPENDENT RECOGNITION OF GNN NUCLEOTIDE
; FILE OF INVENTION: TRIPLETS BY ZINC FINGERS
; FILE REFERENCE: 8325-0011.20 / S11-US2
; CURRENT APPLICATION NUMBER: US/09/989,994
; CURRENT FILING DATE: 2001-11-20
; NUMBER OF SEQ ID NOS: 4085
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 1530
; LENGTH: 7
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: example ZFP
US-09-989-994-1530

Query Match          100.0%; Score 36; DB 11; Length 7;
Best Local Similarity 100.0%; Pred. No. 7e+05;
Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 RSDHLSR 7
   |||||
   |||||
Db 1 RSDHLSR 7

RESULT 271
US-09-989-994-1541
; Sequence 1541, Application US/09989994
; Publication No. US20030104526A1
; GENERAL INFORMATION:
; APPLICANT: LIU, Qiang
; TITLE OF INVENTION: POSITION DEPENDENT RECOGNITION OF GNN NUCLEOTIDE
; FILE OF INVENTION: TRIPLETS BY ZINC FINGERS
; FILE REFERENCE: 8325-0011.20 / S11-US2
; CURRENT APPLICATION NUMBER: US/09/989,994
; CURRENT FILING DATE: 2001-11-20
; NUMBER OF SEQ ID NOS: 4085
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 1541
; LENGTH: 7
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: example ZFP
US-09-989-994-1541

Query Match          100.0%; Score 36; DB 11; Length 7;
Best Local Similarity 100.0%; Pred. No. 7e+05;
Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 RSDHLSR 7
   |||||
   |||||
Db 1 RSDHLSR 7
```

```
Db 1 RSDHLSR 7
   |||||
   |||||

RESULT 272
US-09-989-994-1546
; Sequence 1546, Application US/09989994
; Publication No. US20030104526A1
; GENERAL INFORMATION:
; APPLICANT: LIU, Qiang
; TITLE OF INVENTION: POSITION DEPENDENT RECOGNITION OF GNN NUCLEOTIDE
; FILE OF INVENTION: TRIPLETS BY ZINC FINGERS
; FILE REFERENCE: 8325-0011.20 / S11-US2
; CURRENT APPLICATION NUMBER: US/09/989,994
; CURRENT FILING DATE: 2001-11-20
; NUMBER OF SEQ ID NOS: 4085
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 1546
; LENGTH: 7
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: example ZFP
US-09-989-994-1546

Query Match          100.0%; Score 36; DB 11; Length 7;
Best Local Similarity 100.0%; Pred. No. 7e+05;
Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 RSDHLSR 7
   |||||
   |||||
Db 1 RSDHLSR 7

RESULT 273
US-09-989-994-1565
; Sequence 1565, Application US/09989994
; Publication No. US20030104526A1
; GENERAL INFORMATION:
; APPLICANT: LIU, Qiang
; TITLE OF INVENTION: POSITION DEPENDENT RECOGNITION OF GNN NUCLEOTIDE
; FILE OF INVENTION: TRIPLETS BY ZINC FINGERS
; FILE REFERENCE: 8325-0011.20 / S11-US2
; CURRENT APPLICATION NUMBER: US/09/989,994
; CURRENT FILING DATE: 2001-11-20
; NUMBER OF SEQ ID NOS: 4085
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 1565
; LENGTH: 7
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: example ZFP
US-09-989-994-1565

Query Match          100.0%; Score 36; DB 11; Length 7;
Best Local Similarity 100.0%; Pred. No. 7e+05;
Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 RSDHLSR 7
   |||||
   |||||
Db 1 RSDHLSR 7

RESULT 274
US-09-989-994-1575
; Sequence 1575, Application US/09989994
; Publication No. US20030104526A1
; GENERAL INFORMATION:
; APPLICANT: LIU, Qiang
; TITLE OF INVENTION: POSITION DEPENDENT RECOGNITION OF GNN NUCLEOTIDE
; FILE REFERENCE: 8325-0011.20 / S11-US2
```

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; CURRENT APPLICATION NUMBER: US/09/989,994
; CURRENT FILING DATE: 2001-11-20
; NUMBER OF SEQ ID NOS: 4085
; SOFTWARE: Patentln Ver. 2.0
; SEQ ID NO 1575
; LENGTH: 7
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: example ZFP
US-09-989-994-1575

Query Match
Best Local Similarity 100.0%; Score 36; DB 11; Length 7;
Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Cy 1 RSDHLSR 7
Db 1 RSDHLSR 7

RESULT 275
US-09-989-994-1603
; Sequence 1603, Application US/09989994
; Publication No. US20030104526A1
; GENERAL INFORMATION:
; APPLICANT: LIT, Qiang
; TITLE OF INVENTION: POSITION DEPENDENT RECOGNITION OF GNN NUCLEOTIDE
; FILE REFERENCE: 8325-0011.20 / S11-US2
; CURRENT APPLICATION NUMBER: US/09/989,994
; CURRENT FILING DATE: 2001-11-20
; NUMBER OF SEQ ID NOS: 4085
; SOFTWARE: Patentln Ver. 2.0
; SEQ ID NO 1603
; LENGTH: 7
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: example ZFP
US-09-989-994-1603

Query Match
Best Local Similarity 100.0%; Score 36; DB 11; Length 7;
Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Cy 1 RSDHLSR 7
Db 1 RSDHLSR 7

RESULT 276
US-09-989-994-1714
; Sequence 1714, Application US/09989994
; Publication No. US20030104526A1
; GENERAL INFORMATION:
; APPLICANT: LIT, Qiang
; TITLE OF INVENTION: POSITION DEPENDENT RECOGNITION OF GNN NUCLEOTIDE
; FILE REFERENCE: 8325-0011.20 / S11-US2
; CURRENT APPLICATION NUMBER: US/09/989,994
; CURRENT FILING DATE: 2001-11-20
; NUMBER OF SEQ ID NOS: 4085
; SOFTWARE: Patentln Ver. 2.0
; SEQ ID NO 1714
; LENGTH: 7
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: example ZFP
US-09-989-994-1714

Query Match
Best Local Similarity 100.0%; Score 36; DB 11; Length 7;
Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Cy 1 RSDHLSR 7
Db 1 RSDHLSR 7

RESULT 277
US-09-989-994-1715
; Sequence 1715, Application US/09989994
; Publication No. US20030104526A1
; GENERAL INFORMATION:
; APPLICANT: LIT, Qiang
; TITLE OF INVENTION: POSITION DEPENDENT RECOGNITION OF GNN NUCLEOTIDE
; FILE REFERENCE: 8325-0011.20 / S11-US2
; CURRENT APPLICATION NUMBER: US/09/989,994
; CURRENT FILING DATE: 2001-11-20
; NUMBER OF SEQ ID NOS: 4085
; SOFTWARE: Patentln Ver. 2.0
; SEQ ID NO 1715
; LENGTH: 7
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: example ZFP
US-09-989-994-1715

Query Match
Best Local Similarity 100.0%; Score 36; DB 11; Length 7;
Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Cy 1 RSDHLSR 7
Db 1 RSDHLSR 7

RESULT 278
US-09-989-994-1716
; Sequence 1716, Application US/09989994
; Publication No. US20030104526A1
; GENERAL INFORMATION:
; APPLICANT: LIT, Qiang
; TITLE OF INVENTION: POSITION DEPENDENT RECOGNITION OF GNN NUCLEOTIDE
; FILE REFERENCE: 8325-0011.20 / S11-US2
; CURRENT APPLICATION NUMBER: US/09/989,994
; CURRENT FILING DATE: 2001-11-20
; NUMBER OF SEQ ID NOS: 4085
; SOFTWARE: Patentln Ver. 2.0
; SEQ ID NO 1716
; LENGTH: 7
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: example ZFP
US-09-989-994-1716

Query Match
Best Local Similarity 100.0%; Score 36; DB 11; Length 7;
Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Cy 1 RSDHLSR 7
Db 1 RSDHLSR 7

RESULT 279
US-09-989-994-1717
; Sequence 1717, Application US/09989994
; Publication No. US20030104526A1
; GENERAL INFORMATION:
; OTHER INFORMATION: Description of Artificial Sequence: example ZFP
US-09-989-994-1717

Query Match
Best Local Similarity 100.0%; Score 36; DB 11; Length 7;
Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Cy 1 RSDHLSR 7
Db 1 RSDHLSR 7
```

```

Best Local Similarity 100.0%; Pred. No. 7e+05;
Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Cy 1 RSDHLSR 7
Db 1 RSDHLSR 7

RESULT 277
US-09-989-994-1715
; Sequence 1715, Application US/09989994
; Publication No. US20030104526A1
; GENERAL INFORMATION:
; APPLICANT: LIT, Qiang
; TITLE OF INVENTION: POSITION DEPENDENT RECOGNITION OF GNN NUCLEOTIDE
; FILE REFERENCE: 8325-0011.20 / S11-US2
; CURRENT APPLICATION NUMBER: US/09/989,994
; CURRENT FILING DATE: 2001-11-20
; NUMBER OF SEQ ID NOS: 4085
; SOFTWARE: Patentln Ver. 2.0
; SEQ ID NO 1715
; LENGTH: 7
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: example ZFP
US-09-989-994-1715

Query Match
Best Local Similarity 100.0%; Score 36; DB 11; Length 7;
Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Cy 1 RSDHLSR 7
Db 1 RSDHLSR 7

RESULT 278
US-09-989-994-1716
; Sequence 1716, Application US/09989994
; Publication No. US20030104526A1
; GENERAL INFORMATION:
; APPLICANT: LIT, Qiang
; TITLE OF INVENTION: POSITION DEPENDENT RECOGNITION OF GNN NUCLEOTIDE
; FILE REFERENCE: 8325-0011.20 / S11-US2
; CURRENT APPLICATION NUMBER: US/09/989,994
; CURRENT FILING DATE: 2001-11-20
; NUMBER OF SEQ ID NOS: 4085
; SOFTWARE: Patentln Ver. 2.0
; SEQ ID NO 1716
; LENGTH: 7
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: example ZFP
US-09-989-994-1716

Query Match
Best Local Similarity 100.0%; Score 36; DB 11; Length 7;
Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Cy 1 RSDHLSR 7
Db 1 RSDHLSR 7

RESULT 279
US-09-989-994-1717
; Sequence 1717, Application US/09989994
; Publication No. US20030104526A1
; GENERAL INFORMATION:
; OTHER INFORMATION: Description of Artificial Sequence: example ZFP
US-09-989-994-1717

Query Match
Best Local Similarity 100.0%; Score 36; DB 11; Length 7;
Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Cy 1 RSDHLSR 7
Db 1 RSDHLSR 7
```

```

; APPLICANT: LIU, Qiang
; TITLE OF INVENTION: POSITION DEPENDENT RECOGNITION OF GNN NUCLEOTIDE
; FILE REFERENCE: 8325-0011.20 / S11-US2
; CURRENT APPLICATION NUMBER: US/09/989,994
; CURRENT FILING DATE: 2001-11-20
; NUMBER OF SEQ ID NOS: 4085
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 1717
; LENGTH: 7
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: example ZFP
US-09-989-994-1717

Query Match
Best Local Similarity 100.0%; Score 36; DB 11; Length 7;
Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Cy 1 RSDHLSR 7
   |||||
Db 1 RSDHLSR 7

RESULT 280
US-09-989-994-1718
; Sequence 1718, Application US/09989994
; Publication No. US20030104526A1
; GENERAL INFORMATION:
; APPLICANT: LIU, Qiang
; TITLE OF INVENTION: POSITION DEPENDENT RECOGNITION OF GNN NUCLEOTIDE
; FILE REFERENCE: 8325-0011.20 / S11-US2
; CURRENT APPLICATION NUMBER: US/09/989,994
; CURRENT FILING DATE: 2001-11-20
; NUMBER OF SEQ ID NOS: 4085
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 1718
; LENGTH: 7
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: example ZFP
US-09-989-994-1718

Query Match
Best Local Similarity 100.0%; Score 36; DB 11; Length 7;
Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Cy 1 RSDHLSR 7
   |||||
Db 1 RSDHLSR 7

RESULT 281
US-09-989-994-1870
; Sequence 1870, Application US/09989994
; Publication No. US20030104526A1
; GENERAL INFORMATION:
; APPLICANT: LIU, Qiang
; TITLE OF INVENTION: POSITION DEPENDENT RECOGNITION OF GNN NUCLEOTIDE
; FILE REFERENCE: 8325-0011.20 / S11-US2
; CURRENT APPLICATION NUMBER: US/09/989,994
; CURRENT FILING DATE: 2001-11-20
; NUMBER OF SEQ ID NOS: 4085
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 1870
; LENGTH: 7
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: example ZFP
US-09-989-994-1870
```

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; OTHER INFORMATION: Description of Artificial Sequence: example ZFP
US-09-989-994-1870

Query Match
Best Local Similarity 100.0%; Score 36; DB 11; Length 7;
Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Cy 1 RSDHLSR 7
   |||||
Db 1 RSDHLSR 7

RESULT 282
US-09-989-994-1872
; Sequence 1872, Application US/09989994
; Publication No. US20030104526A1
; GENERAL INFORMATION:
; APPLICANT: LIU, Qiang
; TITLE OF INVENTION: POSITION DEPENDENT RECOGNITION OF GNN NUCLEOTIDE
; FILE REFERENCE: 8325-0011.20 / S11-US2
; CURRENT APPLICATION NUMBER: US/09/989,994
; CURRENT FILING DATE: 2001-11-20
; NUMBER OF SEQ ID NOS: 4085
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 1872
; LENGTH: 7
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: example ZFP
US-09-989-994-1872

Query Match
Best Local Similarity 100.0%; Score 36; DB 11; Length 7;
Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Cy 1 RSDHLSR 7
   |||||
Db 1 RSDHLSR 7

RESULT 283
US-09-989-994-1878
; Sequence 1878, Application US/09989994
; Publication No. US20030104526A1
; GENERAL INFORMATION:
; APPLICANT: LIU, Qiang
; TITLE OF INVENTION: POSITION DEPENDENT RECOGNITION OF GNN NUCLEOTIDE
; FILE REFERENCE: 8325-0011.20 / S11-US2
; CURRENT APPLICATION NUMBER: US/09/989,994
; CURRENT FILING DATE: 2001-11-20
; NUMBER OF SEQ ID NOS: 4085
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 1878
; LENGTH: 7
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: example ZFP
US-09-989-994-1878

Query Match
Best Local Similarity 100.0%; Score 36; DB 11; Length 7;
Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Cy 1 RSDHLSR 7
   |||||
Db 1 RSDHLSR 7

RESULT 284
```

US-09-989-994-1881
 ; Sequence 1881, Application US/09989994
 ; Publication No. US20030104526A1
 ; GENERAL INFORMATION:
 ; APPLICANT: LIU, Qiang
 ; TITLE OF INVENTION: POSITION DEPENDENT RECOGNITION OF GNN NUCLEOTIDE
 ; FILE REFERENCE: 8325-0011.20 / S11-US2
 ; CURRENT APPLICATION NUMBER: US/09/989,994
 ; CURRENT FILING DATE: 2001-11-20
 ; NUMBER OF SEQ ID NOS: 4085
 ; SOFTWARE: PatentIn Ver. 2.0
 ; SEQ ID NO 1881
 ; LENGTH: 7
 ; TYPE: PRT
 ; ORGANISM: Artificial Sequence
 ; FEATURE:
 ; OTHER INFORMATION: Description of Artificial Sequence: example ZFP
 US-09-989-994-1881

Query Match 100.0%; Score 36; DB 11; Length 7;
 Best Local Similarity 100.0%; Pred. No. 7e+05;
 Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 RSDHLSR 7
 Db 1 RSDHLSR 7

RESULT 285
 US-09-989-994-1882
 ; Sequence 1882, Application US/09989994
 ; Publication No. US20030104526A1
 ; GENERAL INFORMATION:
 ; APPLICANT: LIU, Qiang
 ; TITLE OF INVENTION: POSITION DEPENDENT RECOGNITION OF GNN NUCLEOTIDE
 ; FILE REFERENCE: 8325-0011.20 / S11-US2
 ; CURRENT APPLICATION NUMBER: US/09/989,994
 ; CURRENT FILING DATE: 2001-11-20
 ; NUMBER OF SEQ ID NOS: 4085
 ; SOFTWARE: PatentIn Ver. 2.0
 ; SEQ ID NO 1882
 ; LENGTH: 7
 ; TYPE: PRT
 ; ORGANISM: Artificial Sequence
 ; FEATURE:
 ; OTHER INFORMATION: Description of Artificial Sequence: example ZFP
 US-09-989-994-1882

Query Match 100.0%; Score 36; DB 11; Length 7;
 Best Local Similarity 100.0%; Pred. No. 7e+05;
 Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 RSDHLSR 7
 Db 1 RSDHLSR 7

RESULT 286
 US-09-989-994-1883
 ; Sequence 1883, Application US/09989994
 ; Publication No. US20030104526A1
 ; GENERAL INFORMATION:
 ; APPLICANT: LIU, Qiang
 ; TITLE OF INVENTION: POSITION DEPENDENT RECOGNITION OF GNN NUCLEOTIDE
 ; FILE REFERENCE: 8325-0011.20 / S11-US2
 ; CURRENT APPLICATION NUMBER: US/09/989,994
 ; CURRENT FILING DATE: 2001-11-20
 ; NUMBER OF SEQ ID NOS: 4085
 ; SOFTWARE: PatentIn Ver. 2.0
 ; SEQ ID NO 1883

LENGTH: 7
 ; TYPE: PRT
 ; ORGANISM: Artificial Sequence
 ; FEATURE:
 ; OTHER INFORMATION: Description of Artificial Sequence: example ZFP
 US-09-989-994-1883

Query Match 100.0%; Score 36; DB 11; Length 7;
 Best Local Similarity 100.0%; Pred. No. 7e+05;
 Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 RSDHLSR 7
 Db 1 RSDHLSR 7

RESULT 287
 US-09-989-994-1884
 ; Sequence 1884, Application US/09989994
 ; Publication No. US20030104526A1
 ; GENERAL INFORMATION:
 ; APPLICANT: LIU, Qiang
 ; TITLE OF INVENTION: POSITION DEPENDENT RECOGNITION OF GNN NUCLEOTIDE
 ; FILE REFERENCE: 8325-0011.20 / S11-US2
 ; CURRENT APPLICATION NUMBER: US/09/989,994
 ; CURRENT FILING DATE: 2001-11-20
 ; NUMBER OF SEQ ID NOS: 4085
 ; SOFTWARE: PatentIn Ver. 2.0
 ; SEQ ID NO 1884
 ; LENGTH: 7
 ; TYPE: PRT
 ; ORGANISM: Artificial Sequence
 ; FEATURE:
 ; OTHER INFORMATION: Description of Artificial Sequence: example ZFP
 US-09-989-994-1884

Query Match 100.0%; Score 36; DB 11; Length 7;
 Best Local Similarity 100.0%; Pred. No. 7e+05;
 Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 RSDHLSR 7
 Db 1 RSDHLSR 7

RESULT 288
 US-09-989-994-1951
 ; Sequence 1951, Application US/09989994
 ; Publication No. US20030104526A1
 ; GENERAL INFORMATION:
 ; APPLICANT: LIU, Qiang
 ; TITLE OF INVENTION: POSITION DEPENDENT RECOGNITION OF GNN NUCLEOTIDE
 ; FILE REFERENCE: 8325-0011.20 / S11-US2
 ; CURRENT APPLICATION NUMBER: US/09/989,994
 ; CURRENT FILING DATE: 2001-11-20
 ; NUMBER OF SEQ ID NOS: 4085
 ; SOFTWARE: PatentIn Ver. 2.0
 ; SEQ ID NO 1951
 ; LENGTH: 7
 ; TYPE: PRT
 ; ORGANISM: Artificial Sequence
 ; FEATURE:
 ; OTHER INFORMATION: Description of Artificial Sequence: example ZFP
 US-09-989-994-1951

Query Match 100.0%; Score 36; DB 11; Length 7;
 Best Local Similarity 100.0%; Pred. No. 7e+05;
 Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 RSDHLSR 7
 Db 1 RSDHLSR 7

DB 1 RSDHLR 7

RESULT 289

US-09-989-994-1952
 ; Sequence 1952, Application US/09989994
 ; Publication No. US20030104526A1
 ; GENERAL INFORMATION:
 ; APPLICANT: Liu, Qiang
 ; TITLE OF INVENTION: POSITION DEPENDENT RECOGNITION OF GNN NUCLEOTIDE
 ; FILE OF INVENTION: TRIPLETS BY ZINC FINGERS
 ; FILE REFERENCE: 8325-0011.20 / S11-US2
 ; CURRENT APPLICATION NUMBER: US/09/989,994
 ; CURRENT FILING DATE: 2001-11-20
 ; NUMBER OF SEQ ID NOS: 4085
 ; SOFTWARE: PatentIn Ver. 2.0
 ; SEQ ID NO 1952
 ; LENGTH: 7
 ; TYPE: PRT
 ; ORGANISM: Artificial Sequence
 ; FEATURE:
 ; OTHER INFORMATION: Description of Artificial Sequence: example ZFP
 US-09-989-994-1952

Query Match 100.0%; Score 36; DB 11; Length 7;
 Best Local Similarity 100.0%; Pred. No. 7e+05;
 Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 RSDHLR 7
 DB 1 RSDHLR 7

RESULT 290

US-09-989-994-1977
 ; Sequence 1977, Application US/09989994
 ; Publication No. US20030104526A1
 ; GENERAL INFORMATION:
 ; APPLICANT: Liu, Qiang
 ; TITLE OF INVENTION: POSITION DEPENDENT RECOGNITION OF GNN NUCLEOTIDE
 ; FILE OF INVENTION: TRIPLETS BY ZINC FINGERS
 ; FILE REFERENCE: 8325-0011.20 / S11-US2
 ; CURRENT APPLICATION NUMBER: US/09/989,994
 ; CURRENT FILING DATE: 2001-11-20
 ; NUMBER OF SEQ ID NOS: 4085
 ; SOFTWARE: PatentIn Ver. 2.0
 ; SEQ ID NO 1977
 ; LENGTH: 7
 ; TYPE: PRT
 ; ORGANISM: Artificial Sequence
 ; FEATURE:
 ; OTHER INFORMATION: Description of Artificial Sequence: example ZFP
 US-09-989-994-1977

Query Match 100.0%; Score 36; DB 11; Length 7;
 Best Local Similarity 100.0%; Pred. No. 7e+05;
 Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 RSDHLR 7
 DB 1 RSDHLR 7

RESULT 291

US-09-989-994-2618
 ; Sequence 2618, Application US/09989994
 ; Publication No. US20030104526A1
 ; GENERAL INFORMATION:
 ; APPLICANT: Liu, Qiang
 ; TITLE OF INVENTION: POSITION DEPENDENT RECOGNITION OF GNN NUCLEOTIDE
 ; FILE OF INVENTION: TRIPLETS BY ZINC FINGERS
 ; FILE REFERENCE: 8325-0011.20 / S11-US2
 ; CURRENT APPLICATION NUMBER: US/09/989,994

CURRENT FILING DATE: 2001-11-20
 ; NUMBER OF SEQ ID NOS: 4085
 ; SOFTWARE: PatentIn Ver. 2.0
 ; SEQ ID NO 2618
 ; LENGTH: 7
 ; TYPE: PRT
 ; ORGANISM: Artificial Sequence
 ; FEATURE:
 ; OTHER INFORMATION: Description of Artificial Sequence: example ZFP
 US-09-989-994-2618

Query Match 100.0%; Score 36; DB 11; Length 7;
 Best Local Similarity 100.0%; Pred. No. 7e+05;
 Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 RSDHLR 7
 DB 1 RSDHLR 7

RESULT 292

US-09-989-994-2619
 ; Sequence 2619, Application US/09989994
 ; Publication No. US20030104526A1
 ; GENERAL INFORMATION:
 ; APPLICANT: Liu, Qiang
 ; TITLE OF INVENTION: POSITION DEPENDENT RECOGNITION OF GNN NUCLEOTIDE
 ; FILE OF INVENTION: TRIPLETS BY ZINC FINGERS
 ; FILE REFERENCE: 8325-0011.20 / S11-US2
 ; CURRENT APPLICATION NUMBER: US/09/989,994
 ; CURRENT FILING DATE: 2001-11-20
 ; NUMBER OF SEQ ID NOS: 4085
 ; SOFTWARE: PatentIn Ver. 2.0
 ; SEQ ID NO 2619
 ; LENGTH: 7
 ; TYPE: PRT
 ; ORGANISM: Artificial Sequence
 ; FEATURE:
 ; OTHER INFORMATION: Description of Artificial Sequence: example ZFP
 US-09-989-994-2619

Query Match 100.0%; Score 36; DB 11; Length 7;
 Best Local Similarity 100.0%; Pred. No. 7e+05;
 Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 RSDHLR 7
 DB 1 RSDHLR 7

RESULT 293

US-09-989-994-2663
 ; Sequence 2663, Application US/09989994
 ; Publication No. US20030104526A1
 ; GENERAL INFORMATION:
 ; APPLICANT: Liu, Qiang
 ; TITLE OF INVENTION: POSITION DEPENDENT RECOGNITION OF GNN NUCLEOTIDE
 ; FILE OF INVENTION: TRIPLETS BY ZINC FINGERS
 ; FILE REFERENCE: 8325-0011.20 / S11-US2
 ; CURRENT APPLICATION NUMBER: US/09/989,994
 ; CURRENT FILING DATE: 2001-11-20
 ; NUMBER OF SEQ ID NOS: 4085
 ; SOFTWARE: PatentIn Ver. 2.0
 ; SEQ ID NO 2663
 ; LENGTH: 7
 ; TYPE: PRT
 ; ORGANISM: Artificial Sequence
 ; FEATURE:
 ; OTHER INFORMATION: Description of Artificial Sequence: example ZFP
 US-09-989-994-2663

Query Match 100.0%; Score 36; DB 11; Length 7;
 Best Local Similarity 100.0%; Pred. No. 7e+05;

Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 RSDHLSR 7
Db 1 RSDHLSR 7

RESULT 294

US-09-989-994-2741
; Sequence 2741, Application US/09989994
; Publication No. US20030104526A1
; GENERAL INFORMATION:

APPLICANT: LIU, Qiang
; TITLE OF INVENTION: POSITION DEPENDENT RECOGNITION OF GNN NUCLEOTIDE
; TITLE OF INVENTION: TRIPLETS BY ZINC FINGERS
; FILE REFERENCE: 8325-0011.20 / S11-US2

CURRENT APPLICATION NUMBER: US/09/989,994

CURRENT FILING DATE: 2001-11-20

NUMBER OF SEQ ID NOS: 4085

SOFTWARE: PatentIn Ver. 2.0

SEQ ID NO 2741

LENGTH: 7

TYPE: PRT

ORGANISM: Artificial Sequence

FEATURE:

OTHER INFORMATION: Description of Artificial Sequence: example ZFP

Query Match 100.0%; Score 36; DB 11; Length 7;

Best Local Similarity 100.0%; Pred. No. 7e+05; 0; Indels 0; Gaps 0;

Qy 1 RSDHLSR 7
Db 1 RSDHLSR 7

RESULT 295

US-09-989-994-2742
; Sequence 2742, Application US/09989994
; Publication No. US20030104526A1
; GENERAL INFORMATION:

APPLICANT: LIU, Qiang
; TITLE OF INVENTION: POSITION DEPENDENT RECOGNITION OF GNN NUCLEOTIDE
; TITLE OF INVENTION: TRIPLETS BY ZINC FINGERS
; FILE REFERENCE: 8325-0011.20 / S11-US2

CURRENT APPLICATION NUMBER: US/09/989,994

CURRENT FILING DATE: 2001-11-20

NUMBER OF SEQ ID NOS: 4085

SOFTWARE: PatentIn Ver. 2.0

SEQ ID NO 2742

LENGTH: 7

TYPE: PRT

ORGANISM: Artificial Sequence

FEATURE:

OTHER INFORMATION: Description of Artificial Sequence: example ZFP

Query Match 100.0%; Score 36; DB 11; Length 7;

Best Local Similarity 100.0%; Pred. No. 7e+05; 0; Indels 0; Gaps 0;

Qy 1 RSDHLSR 7
Db 1 RSDHLSR 7

RESULT 296

US-09-989-994-2788
; Sequence 2788, Application US/09989994
; Publication No. US20030104526A1
; GENERAL INFORMATION:

APPLICANT: LIU, Qiang

; TITLE OF INVENTION: POSITION DEPENDENT RECOGNITION OF GNN NUCLEOTIDE
; TITLE OF INVENTION: TRIPLETS BY ZINC FINGERS
; FILE REFERENCE: 8325-0011.20 / S11-US2

CURRENT APPLICATION NUMBER: US/09/989,994

CURRENT FILING DATE: 2001-11-20

NUMBER OF SEQ ID NOS: 4085

SOFTWARE: PatentIn Ver. 2.0

SEQ ID NO 2788

LENGTH: 7

TYPE: PRT

ORGANISM: Artificial Sequence

FEATURE:

OTHER INFORMATION: Description of Artificial Sequence: example ZFP

Query Match 100.0%; Score 36; DB 11; Length 7;

Best Local Similarity 100.0%; Pred. No. 7e+05; 0; Indels 0; Gaps 0;

Qy 1 RSDHLSR 7
Db 1 RSDHLSR 7

RESULT 297

US-09-989-994-2930
; Sequence 2930, Application US/09989994
; Publication No. US20030104526A1
; GENERAL INFORMATION:

APPLICANT: LIU, Qiang
; TITLE OF INVENTION: POSITION DEPENDENT RECOGNITION OF GNN NUCLEOTIDE
; TITLE OF INVENTION: TRIPLETS BY ZINC FINGERS
; FILE REFERENCE: 8325-0011.20 / S11-US2

CURRENT APPLICATION NUMBER: US/09/989,994

CURRENT FILING DATE: 2001-11-20

NUMBER OF SEQ ID NOS: 4085

SOFTWARE: PatentIn Ver. 2.0

SEQ ID NO 2930

LENGTH: 7

TYPE: PRT

ORGANISM: Artificial Sequence

FEATURE:

OTHER INFORMATION: Description of Artificial Sequence: example ZFP

Query Match 100.0%; Score 36; DB 11; Length 7;

Best Local Similarity 100.0%; Pred. No. 7e+05; 0; Indels 0; Gaps 0;

Qy 1 RSDHLSR 7
Db 1 RSDHLSR 7

RESULT 298

US-09-989-994-2936
; Sequence 2936, Application US/09989994
; Publication No. US20030104526A1
; GENERAL INFORMATION:

APPLICANT: LIU, Qiang
; TITLE OF INVENTION: POSITION DEPENDENT RECOGNITION OF GNN NUCLEOTIDE
; TITLE OF INVENTION: TRIPLETS BY ZINC FINGERS
; FILE REFERENCE: 8325-0011.20 / S11-US2

CURRENT APPLICATION NUMBER: US/09/989,994

CURRENT FILING DATE: 2001-11-20

NUMBER OF SEQ ID NOS: 4085

SOFTWARE: PatentIn Ver. 2.0

SEQ ID NO 2936

LENGTH: 7

TYPE: PRT

ORGANISM: Artificial Sequence

FEATURE:

OTHER INFORMATION: Description of Artificial Sequence: example ZFP

US-09-989-994-2936

Query Match 100.0%; Score 36; DB 11; Length 7;
Best Local Similarity 100.0%; Pred. No. 7e+05;
Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 RSDHLSR 7
DB 1 RSDHLSR 7

RESULT 299
US-09-989-994-2937
; Sequence 2937, Application US/09989994
; Publication No. US20030104526A1
; GENERAL INFORMATION:

; APPLICANT: LIU, Qiang
; TITLE OF INVENTION: POSITION DEPENDENT RECOGNITION OF GNN NUCLEOTIDE
; FILE REFERENCE: 8325-0011.20 / S11-US2
; CURRENT APPLICATION NUMBER: US/09/989,994
; CURRENT FILING DATE: 2001-11-20
; NUMBER OF SEQ ID NOS: 4085
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 2937
; LENGTH: 7
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:

OTHER INFORMATION: Description of Artificial Sequence: example ZFP
US-09-989-994-2937

Query Match 100.0%; Score 36; DB 11; Length 7;
Best Local Similarity 100.0%; Pred. No. 7e+05;
Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 RSDHLSR 7
DB 1 RSDHLSR 7

RESULT 300
US-09-989-994-2940
; Sequence 2940, Application US/09989994
; Publication No. US20030104526A1
; GENERAL INFORMATION:

; APPLICANT: LIU, Qiang
; TITLE OF INVENTION: POSITION DEPENDENT RECOGNITION OF GNN NUCLEOTIDE
; FILE REFERENCE: 8325-0011.20 / S11-US2
; CURRENT APPLICATION NUMBER: US/09/989,994
; CURRENT FILING DATE: 2001-11-20
; NUMBER OF SEQ ID NOS: 4085
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 2940
; LENGTH: 7
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:

OTHER INFORMATION: Description of Artificial Sequence: example ZFP
US-09-989-994-2940

Query Match 100.0%; Score 36; DB 11; Length 7;
Best Local Similarity 100.0%; Pred. No. 7e+05;
Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 RSDHLSR 7
DB 1 RSDHLSR 7

RESULT 301
US-09-989-994-2941

; Sequence 2941, Application US/09989994
; Publication No. US20030104526A1
; GENERAL INFORMATION:

; APPLICANT: LIU, Qiang
; TITLE OF INVENTION: POSITION DEPENDENT RECOGNITION OF GNN NUCLEOTIDE
; FILE REFERENCE: 8325-0011.20 / S11-US2
; CURRENT APPLICATION NUMBER: US/09/989,994
; CURRENT FILING DATE: 2001-11-20
; NUMBER OF SEQ ID NOS: 4085
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 2941
; LENGTH: 7
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:

OTHER INFORMATION: Description of Artificial Sequence: example ZFP
US-09-989-994-2941

Query Match 100.0%; Score 36; DB 11; Length 7;
Best Local Similarity 100.0%; Pred. No. 7e+05;
Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 RSDHLSR 7
DB 1 RSDHLSR 7

RESULT 302
US-09-989-994-2961
; Sequence 2961, Application US/09989994
; Publication No. US20030104526A1
; GENERAL INFORMATION:

; APPLICANT: LIU, Qiang
; TITLE OF INVENTION: POSITION DEPENDENT RECOGNITION OF GNN NUCLEOTIDE
; FILE REFERENCE: 8325-0011.20 / S11-US2
; CURRENT APPLICATION NUMBER: US/09/989,994
; CURRENT FILING DATE: 2001-11-20
; NUMBER OF SEQ ID NOS: 4085
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 2961
; LENGTH: 7
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:

OTHER INFORMATION: Description of Artificial Sequence: example ZFP
US-09-989-994-2961

Query Match 100.0%; Score 36; DB 11; Length 7;
Best Local Similarity 100.0%; Pred. No. 7e+05;
Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 RSDHLSR 7
DB 1 RSDHLSR 7

RESULT 303
US-09-989-994-2965
; Sequence 2965, Application US/09989994
; Publication No. US20030104526A1
; GENERAL INFORMATION:

; APPLICANT: LIU, Qiang
; TITLE OF INVENTION: POSITION DEPENDENT RECOGNITION OF GNN NUCLEOTIDE
; FILE REFERENCE: 8325-0011.20 / S11-US2
; CURRENT APPLICATION NUMBER: US/09/989,994
; CURRENT FILING DATE: 2001-11-20
; NUMBER OF SEQ ID NOS: 4085
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 2965
; LENGTH: 7

```
TYPE: PRT
ORGANISM: Artificial Sequence
FEATURE:
OTHER INFORMATION: Description of Artificial Sequence: example ZFP
US-09-989-994-2965
```

```
Query Match      100.0%; Score 36; DB 11; Length 7;
Best Local Similarity 100.0%; Pred. No. 7e+05;
Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
```

```
QY      1 RSDHLR 7
        |||||
Db      1 RSDHLR 7
```

```
RESULT 304
US-09-989-994-2985
; Sequence 2985, Application US/09989994
; Publication No. US20030104526A1
; GENERAL INFORMATION:
```

```
APPLICANT: LIU, Qiang
TITLE OF INVENTION: POSITION DEPENDENT RECOGNITION OF GNN NUCLEOTIDE
FILE REFERENCE: 8325-0011.20 / S11-US2
CURRENT APPLICATION NUMBER: US/09/989,994
CURRENT FILING DATE: 2001-11-20
NUMBER OF SEQ ID NOS: 4085
SOFTWARE: Patentin Ver. 2.0
SEQ ID NO 2985
LENGTH: 7
TYPE: PRT
ORGANISM: Artificial Sequence
FEATURE:
```

```
OTHER INFORMATION: Description of Artificial Sequence: example ZFP
US-09-989-994-2985
```

```
Query Match      100.0%; Score 36; DB 11; Length 7;
Best Local Similarity 100.0%; Pred. No. 7e+05;
Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
```

```
QY      1 RSDHLR 7
        |||||
Db      1 RSDHLR 7
```

```
RESULT 305
US-09-989-994-3002
; Sequence 3002, Application US/09989994
; Publication No. US20030104526A1
; GENERAL INFORMATION:
```

```
APPLICANT: LIU, Qiang
TITLE OF INVENTION: POSITION DEPENDENT RECOGNITION OF GNN NUCLEOTIDE
FILE REFERENCE: 8325-0011.20 / S11-US2
CURRENT APPLICATION NUMBER: US/09/989,994
CURRENT FILING DATE: 2001-11-20
NUMBER OF SEQ ID NOS: 4085
SOFTWARE: Patentin Ver. 2.0
SEQ ID NO 3002
LENGTH: 7
TYPE: PRT
ORGANISM: Artificial Sequence
FEATURE:
```

```
OTHER INFORMATION: Description of Artificial Sequence: example ZFP
US-09-989-994-3002
```

```
Query Match      100.0%; Score 36; DB 11; Length 7;
Best Local Similarity 100.0%; Pred. No. 7e+05;
Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
```

```
QY      1 RSDHLR 7
        |||||
Db      1 RSDHLR 7
```

```
RESULT 306
US-09-989-994-3116
; Sequence 3116, Application US/09989994
; Publication No. US20030104526A1
; GENERAL INFORMATION:
```

```
APPLICANT: LIU, Qiang
TITLE OF INVENTION: POSITION DEPENDENT RECOGNITION OF GNN NUCLEOTIDE
FILE REFERENCE: 8325-0011.20 / S11-US2
CURRENT APPLICATION NUMBER: US/09/989,994
CURRENT FILING DATE: 2001-11-20
NUMBER OF SEQ ID NOS: 4085
SOFTWARE: Patentin Ver. 2.0
SEQ ID NO 3116
LENGTH: 7
TYPE: PRT
ORGANISM: Artificial Sequence
FEATURE:
```

```
OTHER INFORMATION: Description of Artificial Sequence: example ZFP
US-09-989-994-3116
```

```
Query Match      100.0%; Score 36; DB 11; Length 7;
Best Local Similarity 100.0%; Pred. No. 7e+05;
Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
```

```
QY      1 RSDHLR 7
        |||||
Db      1 RSDHLR 7
```

```
RESULT 307
US-09-989-994-3117
; Sequence 3117, Application US/09989994
; Publication No. US20030104526A1
; GENERAL INFORMATION:
```

```
APPLICANT: LIU, Qiang
TITLE OF INVENTION: POSITION DEPENDENT RECOGNITION OF GNN NUCLEOTIDE
FILE REFERENCE: 8325-0011.20 / S11-US2
CURRENT APPLICATION NUMBER: US/09/989,994
CURRENT FILING DATE: 2001-11-20
NUMBER OF SEQ ID NOS: 4085
SOFTWARE: Patentin Ver. 2.0
SEQ ID NO 3117
LENGTH: 7
TYPE: PRT
ORGANISM: Artificial Sequence
FEATURE:
```

```
OTHER INFORMATION: Description of Artificial Sequence: example ZFP
US-09-989-994-3117
```

```
Query Match      100.0%; Score 36; DB 11; Length 7;
Best Local Similarity 100.0%; Pred. No. 7e+05;
Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
```

```
QY      1 RSDHLR 7
        |||||
Db      1 RSDHLR 7
```

```
RESULT 308
US-09-989-994-3155
; Sequence 3155, Application US/09989994
; Publication No. US20030104526A1
; GENERAL INFORMATION:
```

```
APPLICANT: LIU, Qiang
TITLE OF INVENTION: POSITION DEPENDENT RECOGNITION OF GNN NUCLEOTIDE
FILE REFERENCE: 8325-0011.20 / S11-US2
CURRENT APPLICATION NUMBER: US/09/989,994
CURRENT FILING DATE: 2001-11-20
```

NUMBER OF SEQ ID NOS: 4085
SOFTWARE: PatentIn Ver. 2.0
SEQ ID NO 3155
LENGTH: 7
TYPE: PRT
ORGANISM: Artificial Sequence
FEATURE:
OTHER INFORMATION: Description of Artificial Sequence: example ZFP
US-09-989-994-3155

Query Match
Best Local Similarity 100.0%; Score 36; DB 11; Length 7;
Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Cy 1 RSDHLSR 7
Db 1 RSDHLSR 7

RESULT 309
US-09-989-994-3156
Sequence 3156, Application US/09989994
Publication No. US20030104526A1
GENERAL INFORMATION:
APPLICANT: Liu, Qiang
TITLE OF INVENTION: POSITION DEPENDENT RECOGNITION OF GNN NUCLEOTIDE
FILE REFERENCE: 8325-0011.20 / S11-US2
CURRENT APPLICATION NUMBER: US/09/989,994
CURRENT FILING DATE: 2001-11-20
NUMBER OF SEQ ID NOS: 4085
SOFTWARE: PatentIn Ver. 2.0
SEQ ID NO 3156
LENGTH: 7
TYPE: PRT
ORGANISM: Artificial Sequence
FEATURE:
OTHER INFORMATION: Description of Artificial Sequence: example ZFP
US-09-989-994-3156

Query Match
Best Local Similarity 100.0%; Score 36; DB 11; Length 7;
Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Cy 1 RSDHLSR 7
Db 1 RSDHLSR 7

RESULT 310
US-09-989-994-3580
Sequence 3580, Application US/09989994
Publication No. US20030104526A1
GENERAL INFORMATION:
APPLICANT: Liu, Qiang
TITLE OF INVENTION: POSITION DEPENDENT RECOGNITION OF GNN NUCLEOTIDE
FILE REFERENCE: 8325-0011.20 / S11-US2
CURRENT APPLICATION NUMBER: US/09/989,994
CURRENT FILING DATE: 2001-11-20
NUMBER OF SEQ ID NOS: 4085
SOFTWARE: PatentIn Ver. 2.0
SEQ ID NO 3580
LENGTH: 7
TYPE: PRT
ORGANISM: Artificial Sequence
FEATURE:
OTHER INFORMATION: Description of Artificial Sequence: example ZFP
US-09-989-994-3580

Query Match
Best Local Similarity 100.0%; Score 36; DB 11; Length 7;
Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Cy 1 RSDHLSR 7
Db 1 RSDHLSR 7

RESULT 311
US-09-989-994-3581
Sequence 3581, Application US/09989994
Publication No. US20030104526A1
GENERAL INFORMATION:
APPLICANT: Liu, Qiang
TITLE OF INVENTION: POSITION DEPENDENT RECOGNITION OF GNN NUCLEOTIDE
FILE REFERENCE: 8325-0011.20 / S11-US2
CURRENT APPLICATION NUMBER: US/09/989,994
CURRENT FILING DATE: 2001-11-20
NUMBER OF SEQ ID NOS: 4085
SOFTWARE: PatentIn Ver. 2.0
SEQ ID NO 3581
LENGTH: 7
TYPE: PRT
ORGANISM: Artificial Sequence
FEATURE:
OTHER INFORMATION: Description of Artificial Sequence: example ZFP
US-09-989-994-3581

Query Match
Best Local Similarity 100.0%; Score 36; DB 11; Length 7;
Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Cy 1 RSDHLSR 7
Db 1 RSDHLSR 7

RESULT 312
US-09-989-994-3608
Sequence 3608, Application US/09989994
Publication No. US20030104526A1
GENERAL INFORMATION:
APPLICANT: Liu, Qiang
TITLE OF INVENTION: POSITION DEPENDENT RECOGNITION OF GNN NUCLEOTIDE
FILE REFERENCE: 8325-0011.20 / S11-US2
CURRENT APPLICATION NUMBER: US/09/989,994
CURRENT FILING DATE: 2001-11-20
NUMBER OF SEQ ID NOS: 4085
SOFTWARE: PatentIn Ver. 2.0
SEQ ID NO 3608
LENGTH: 7
TYPE: PRT
ORGANISM: Artificial Sequence
FEATURE:
OTHER INFORMATION: Description of Artificial Sequence: example ZFP
US-09-989-994-3608

Query Match
Best Local Similarity 100.0%; Score 36; DB 11; Length 7;
Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Cy 1 RSDHLSR 7
Db 1 RSDHLSR 7

RESULT 313
US-09-989-994-3623
Sequence 3623, Application US/09989994
Publication No. US20030104526A1
GENERAL INFORMATION:
APPLICANT: Liu, Qiang
TITLE OF INVENTION: POSITION DEPENDENT RECOGNITION OF GNN NUCLEOTIDE

```

; TITLE OF INVENTION: TRIPLETS BY ZINC FINGERS
; FILE REFERENCE: 8325-0011.20 / S11-US2
; CURRENT APPLICATION NUMBER: US/09/989,994
; CURRENT FILING DATE: 2001-11-20
; NUMBER OF SEQ ID NOS: 4085
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 3623
; LENGTH: 7
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: example ZFP
US-09-989-994-3623

Query Match
Best Local Similarity 100.0%; Score 36; DB 11; Length 7;
Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Cy 1 RSDHLSR 7
Db 1 RSDHLSR 7

RESULT 314
US-09-989-994-3624
; Sequence 3624, Application US/09989994
; Publication No. US20030104526A1
; GENERAL INFORMATION:
; APPLICANT: LIU, Qiang
; TITLE OF INVENTION: POSITION DEPENDENT RECOGNITION OF GNN NUCLEOTIDE
; FILE REFERENCE: 8325-0011.20 / S11-US2
; CURRENT APPLICATION NUMBER: US/09/989,994
; CURRENT FILING DATE: 2001-11-20
; NUMBER OF SEQ ID NOS: 4085
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 3624
; LENGTH: 7
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: example ZFP
US-09-989-994-3624

Query Match
Best Local Similarity 100.0%; Score 36; DB 11; Length 7;
Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Cy 1 RSDHLSR 7
Db 1 RSDHLSR 7

RESULT 315
US-09-989-994-3625
; Sequence 3625, Application US/09989994
; Publication No. US20030104526A1
; GENERAL INFORMATION:
; APPLICANT: LIU, Qiang
; TITLE OF INVENTION: POSITION DEPENDENT RECOGNITION OF GNN NUCLEOTIDE
; FILE REFERENCE: 8325-0011.20 / S11-US2
; CURRENT APPLICATION NUMBER: US/09/989,994
; CURRENT FILING DATE: 2001-11-20
; NUMBER OF SEQ ID NOS: 4085
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 3625
; LENGTH: 7
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: example ZFP
US-09-989-994-3625
```

```

Query Match
Best Local Similarity 100.0%; Score 36; DB 11; Length 7;
Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Cy 1 RSDHLSR 7
Db 1 RSDHLSR 7

RESULT 316
US-09-989-994-3636
; Sequence 3636, Application US/09989994
; Publication No. US20030104526A1
; GENERAL INFORMATION:
; APPLICANT: LIU, Qiang
; TITLE OF INVENTION: POSITION DEPENDENT RECOGNITION OF GNN NUCLEOTIDE
; FILE REFERENCE: 8325-0011.20 / S11-US2
; CURRENT APPLICATION NUMBER: US/09/989,994
; CURRENT FILING DATE: 2001-11-20
; NUMBER OF SEQ ID NOS: 4085
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 3636
; LENGTH: 7
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: example ZFP
US-09-989-994-3636

Query Match
Best Local Similarity 100.0%; Score 36; DB 11; Length 7;
Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Cy 1 RSDHLSR 7
Db 1 RSDHLSR 7

RESULT 317
US-09-989-994-3637
; Sequence 3637, Application US/09989994
; Publication No. US20030104526A1
; GENERAL INFORMATION:
; APPLICANT: LIU, Qiang
; TITLE OF INVENTION: POSITION DEPENDENT RECOGNITION OF GNN NUCLEOTIDE
; FILE REFERENCE: 8325-0011.20 / S11-US2
; CURRENT APPLICATION NUMBER: US/09/989,994
; CURRENT FILING DATE: 2001-11-20
; NUMBER OF SEQ ID NOS: 4085
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 3637
; LENGTH: 7
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: example ZFP
US-09-989-994-3637

Query Match
Best Local Similarity 100.0%; Score 36; DB 11; Length 7;
Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Cy 1 RSDHLSR 7
Db 1 RSDHLSR 7

RESULT 318
US-09-989-994-3648
; Sequence 3648, Application US/09989994
```

Publication No. US20030104526A1
GENERAL INFORMATION:
APPLICANT: LIU, Qiang
TITLE OF INVENTION: POSITION DEPENDENT RECOGNITION OF GNN NUCLEOTIDE
FILE REFERENCE: 8325-0011.20 / S11-US2
CURRENT APPLICATION NUMBER: US/09/989,994
CURRENT FILING DATE: 2001-11-20
NUMBER OF SEQ ID NOS: 4085
SOFTWARE: PatentIn Ver. 2.0
SEQ ID NO: 3648
LENGTH: 7
TYPE: PRT
ORGANISM: Artificial Sequence
FEATURE:
OTHER INFORMATION: Description of Artificial Sequence: example ZFP
US-09-989-994-3648

Query Match 100.0%; Score 36; DB 11; Length 7;
Best Local Similarity 100.0%; Pred. No. 7e+05;
Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 RSDHLSR 7
DB 1 RSDHLSR 7

RESULT 319
US-09-989-994-3649
Sequence 3649, Application US/09989994
Publication No. US20030104526A1
GENERAL INFORMATION:
APPLICANT: LIU, Qiang
TITLE OF INVENTION: POSITION DEPENDENT RECOGNITION OF GNN NUCLEOTIDE
FILE REFERENCE: 8325-0011.20 / S11-US2
CURRENT APPLICATION NUMBER: US/09/989,994
CURRENT FILING DATE: 2001-11-20
NUMBER OF SEQ ID NOS: 4085
SOFTWARE: PatentIn Ver. 2.0
SEQ ID NO: 3649
LENGTH: 7
TYPE: PRT
ORGANISM: Artificial Sequence
FEATURE:
OTHER INFORMATION: Description of Artificial Sequence: example ZFP
US-09-989-994-3649

Query Match 100.0%; Score 36; DB 11; Length 7;
Best Local Similarity 100.0%; Pred. No. 7e+05;
Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 RSDHLSR 7
DB 1 RSDHLSR 7

RESULT 320
US-09-989-994-3655
Sequence 3655, Application US/09989994
Publication No. US20030104526A1
GENERAL INFORMATION:
APPLICANT: LIU, Qiang
TITLE OF INVENTION: POSITION DEPENDENT RECOGNITION OF GNN NUCLEOTIDE
FILE REFERENCE: 8325-0011.20 / S11-US2
CURRENT APPLICATION NUMBER: US/09/989,994
CURRENT FILING DATE: 2001-11-20
NUMBER OF SEQ ID NOS: 4085
SOFTWARE: PatentIn Ver. 2.0
SEQ ID NO: 3655
LENGTH: 7
TYPE: PRT

ORGANISM: Artificial Sequence
FEATURE:
OTHER INFORMATION: Description of Artificial Sequence: example ZFP
US-09-989-994-3655

Query Match 100.0%; Score 36; DB 11; Length 7;
Best Local Similarity 100.0%; Pred. No. 7e+05;
Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 RSDHLSR 7
DB 1 RSDHLSR 7

RESULT 321
US-09-989-994-3656
Sequence 3656, Application US/09989994
Publication No. US20030104526A1
GENERAL INFORMATION:
APPLICANT: LIU, Qiang
TITLE OF INVENTION: POSITION DEPENDENT RECOGNITION OF GNN NUCLEOTIDE
FILE REFERENCE: 8325-0011.20 / S11-US2
CURRENT APPLICATION NUMBER: US/09/989,994
CURRENT FILING DATE: 2001-11-20
NUMBER OF SEQ ID NOS: 4085
SOFTWARE: PatentIn Ver. 2.0
SEQ ID NO: 3656
LENGTH: 7
TYPE: PRT
ORGANISM: Artificial Sequence
FEATURE:
OTHER INFORMATION: Description of Artificial Sequence: example ZFP
US-09-989-994-3656

Query Match 100.0%; Score 36; DB 11; Length 7;
Best Local Similarity 100.0%; Pred. No. 7e+05;
Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 RSDHLSR 7
DB 1 RSDHLSR 7

RESULT 322
US-09-989-994-3658
Sequence 3658, Application US/09989994
Publication No. US20030104526A1
GENERAL INFORMATION:
APPLICANT: LIU, Qiang
TITLE OF INVENTION: POSITION DEPENDENT RECOGNITION OF GNN NUCLEOTIDE
FILE REFERENCE: 8325-0011.20 / S11-US2
CURRENT APPLICATION NUMBER: US/09/989,994
CURRENT FILING DATE: 2001-11-20
NUMBER OF SEQ ID NOS: 4085
SOFTWARE: PatentIn Ver. 2.0
SEQ ID NO: 3658
LENGTH: 7
TYPE: PRT
ORGANISM: Artificial Sequence
FEATURE:
OTHER INFORMATION: Description of Artificial Sequence: example ZFP
US-09-989-994-3658

Query Match 100.0%; Score 36; DB 11; Length 7;
Best Local Similarity 100.0%; Pred. No. 7e+05;
Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 RSDHLSR 7
DB 1 RSDHLSR 7

RESULT 323
US-09-989-994-3672
; Sequence 3672, Application US/09989994
; Publication No. US20030104526A1
; GENERAL INFORMATION:
; APPLICANT: LIU, Qiang
; TITLE OF INVENTION: POSITION DEPENDENT RECOGNITION OF GNN NUCLEOTIDE
; FILE REFERENCE: 8325-0011.20 / S11-US2
; CURRENT APPLICATION NUMBER: US/09/989,994
; CURRENT FILING DATE: 2001-11-20
; NUMBER OF SEQ ID NOS: 4085
; SOFTWARE: Patentin Ver. 2.0
; SEQ ID NO 3672
; LENGTH: 7
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: example ZFP
US-09-989-994-3672

Query Match
Best Local Similarity 100.0%; Score 36; DB 11; Length 7;
Pred. No. 7e+05;
Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 RSDHLR 7
Db 1 RSDHLR 7

RESULT 324
US-09-989-994-3673
; Sequence 3673, Application US/09989994
; Publication No. US20030104526A1
; GENERAL INFORMATION:
; APPLICANT: LIU, Qiang
; TITLE OF INVENTION: POSITION DEPENDENT RECOGNITION OF GNN NUCLEOTIDE
; FILE REFERENCE: 8325-0011.20 / S11-US2
; CURRENT APPLICATION NUMBER: US/09/989,994
; CURRENT FILING DATE: 2001-11-20
; NUMBER OF SEQ ID NOS: 4085
; SOFTWARE: Patentin Ver. 2.0
; SEQ ID NO 3673
; LENGTH: 7
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: example ZFP
US-09-989-994-3673

Query Match
Best Local Similarity 100.0%; Score 36; DB 11; Length 7;
Pred. No. 7e+05;
Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 RSDHLR 7
Db 1 RSDHLR 7

RESULT 325
US-09-989-994-3707
; Sequence 3707, Application US/09989994
; Publication No. US20030104526A1
; GENERAL INFORMATION:
; APPLICANT: LIU, Qiang
; TITLE OF INVENTION: POSITION DEPENDENT RECOGNITION OF GNN NUCLEOTIDE
; FILE REFERENCE: 8325-0011.20 / S11-US2
; CURRENT APPLICATION NUMBER: US/09/989,994
; CURRENT FILING DATE: 2001-11-20
; NUMBER OF SEQ ID NOS: 4085

; SOFTWARE: Patentin Ver. 2.0
; SEQ ID NO 3707
; LENGTH: 7
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: example ZFP
US-09-989-994-3707

Query Match
Best Local Similarity 100.0%; Score 36; DB 11; Length 7;
Pred. No. 7e+05;
Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 RSDHLR 7
Db 1 RSDHLR 7

RESULT 326
US-09-989-994-3708
; Sequence 3708, Application US/09989994
; Publication No. US20030104526A1
; GENERAL INFORMATION:
; APPLICANT: LIU, Qiang
; TITLE OF INVENTION: POSITION DEPENDENT RECOGNITION OF GNN NUCLEOTIDE
; FILE REFERENCE: 8325-0011.20 / S11-US2
; CURRENT APPLICATION NUMBER: US/09/989,994
; CURRENT FILING DATE: 2001-11-20
; NUMBER OF SEQ ID NOS: 4085
; SOFTWARE: Patentin Ver. 2.0
; SEQ ID NO 3708
; LENGTH: 7
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: example ZFP
US-09-989-994-3708

Query Match
Best Local Similarity 100.0%; Score 36; DB 11; Length 7;
Pred. No. 7e+05;
Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 RSDHLR 7
Db 1 RSDHLR 7

RESULT 327
US-09-989-994-3800
; Sequence 3800, Application US/09989994
; Publication No. US20030104526A1
; GENERAL INFORMATION:
; APPLICANT: LIU, Qiang
; TITLE OF INVENTION: POSITION DEPENDENT RECOGNITION OF GNN NUCLEOTIDE
; FILE REFERENCE: 8325-0011.20 / S11-US2
; CURRENT APPLICATION NUMBER: US/09/989,994
; CURRENT FILING DATE: 2001-11-20
; NUMBER OF SEQ ID NOS: 4085
; SOFTWARE: Patentin Ver. 2.0
; SEQ ID NO 3800
; LENGTH: 7
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: example ZFP
US-09-989-994-3800

Query Match
Best Local Similarity 100.0%; Score 36; DB 11; Length 7;
Pred. No. 7e+05;
Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 RSDHLSR 7
Db 1 RSDHLSR 7

RESULT 328

US-09-989-994-3802
; Sequence 3802, Application US/09989994
; Publication No. US20030104526A1
; GENERAL INFORMATION:
; APPLICANT: LIU, Qiang
; TITLE OF INVENTION: POSITION DEPENDENT RECOGNITION OF GNN NUCLEOTIDE
; FILE REFERENCE: 8325-0011.20 / S11-US2
; CURRENT APPLICATION NUMBER: US/09/989,994
; CURRENT FILING DATE: 2001-11-20
; NUMBER OF SEQ ID NOS: 4085
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 3802
; LENGTH: 7
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: example ZFP

Query Match 100.0%; Score 36; DB 11; Length 7;
Best Local Similarity 100.0%; Pred. No. 7e+05;
Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 RSDHLSR 7
Db 1 RSDHLSR 7

RESULT 329

US-09-989-994-3803
; Sequence 3803, Application US/09989994
; Publication No. US20030104526A1
; GENERAL INFORMATION:
; APPLICANT: LIU, Qiang
; TITLE OF INVENTION: POSITION DEPENDENT RECOGNITION OF GNN NUCLEOTIDE
; FILE REFERENCE: 8325-0011.20 / S11-US2
; CURRENT APPLICATION NUMBER: US/09/989,994
; CURRENT FILING DATE: 2001-11-20
; NUMBER OF SEQ ID NOS: 4085
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 3803
; LENGTH: 7
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: example ZFP

Query Match 100.0%; Score 36; DB 11; Length 7;
Best Local Similarity 100.0%; Pred. No. 7e+05;
Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 RSDHLSR 7
Db 1 RSDHLSR 7

RESULT 330

US-09-989-994-3814
; Sequence 3814, Application US/09989994
; Publication No. US20030104526A1
; GENERAL INFORMATION:
; APPLICANT: LIU, Qiang
; TITLE OF INVENTION: POSITION DEPENDENT RECOGNITION OF GNN NUCLEOTIDE
; FILE REFERENCE: 8325-0011.20 / S11-US2
; CURRENT APPLICATION NUMBER: US/09/989,994
; CURRENT FILING DATE: 2001-11-20
; NUMBER OF SEQ ID NOS: 4085
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 3814
; LENGTH: 7
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: example ZFP

FILE REFERENCE: 8325-0011.20 / S11-US2
; CURRENT APPLICATION NUMBER: US/09/989,994
; CURRENT FILING DATE: 2001-11-20
; NUMBER OF SEQ ID NOS: 4085
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 3814
; LENGTH: 7
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: example ZFP

US-09-989-994-3814

Query Match 100.0%; Score 36; DB 11; Length 7;
Best Local Similarity 100.0%; Pred. No. 7e+05;
Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 RSDHLSR 7
Db 1 RSDHLSR 7

RESULT 331

US-09-989-994-3815
; Sequence 3815, Application US/09989994
; Publication No. US20030104526A1
; GENERAL INFORMATION:
; APPLICANT: LIU, Qiang
; TITLE OF INVENTION: POSITION DEPENDENT RECOGNITION OF GNN NUCLEOTIDE
; FILE REFERENCE: 8325-0011.20 / S11-US2
; CURRENT APPLICATION NUMBER: US/09/989,994
; CURRENT FILING DATE: 2001-11-20
; NUMBER OF SEQ ID NOS: 4085
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 3815
; LENGTH: 7
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: example ZFP

Query Match 100.0%; Score 36; DB 11; Length 7;
Best Local Similarity 100.0%; Pred. No. 7e+05;
Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 RSDHLSR 7
Db 1 RSDHLSR 7

RESULT 332

US-09-989-994-3816
; Sequence 3816, Application US/09989994
; Publication No. US20030104526A1
; GENERAL INFORMATION:
; APPLICANT: LIU, Qiang
; TITLE OF INVENTION: POSITION DEPENDENT RECOGNITION OF GNN NUCLEOTIDE
; FILE REFERENCE: 8325-0011.20 / S11-US2
; CURRENT APPLICATION NUMBER: US/09/989,994
; CURRENT FILING DATE: 2001-11-20
; NUMBER OF SEQ ID NOS: 4085
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 3816
; LENGTH: 7
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: example ZFP

US-09-989-994-3816


```
Query Match          100.0%; Score 36; DB 11; Length 7;
Best Local Similarity 100.0%; Pred. No. 7e+05;
Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 RSDHLSR 7
   |||||
Db 1 RSDHLSR 7

RESULT 333
US-09-989-994-3859
; Sequence 3859, Application US/09989994
; Publication No. US20030104526A1
; GENERAL INFORMATION:
; APPLICANT: LIU, Qiang
; TITLE OF INVENTION: POSITION DEPENDENT RECOGNITION OF GNN NUCLEOTIDE
; FILE REFERENCE: 8325-0011.20 / S11-US2
; CURRENT APPLICATION NUMBER: US/09/989,994
; CURRENT FILING DATE: 2001-11-20
; NUMBER OF SEQ ID NOS: 4085
; SOFTWARE: Patentin Ver. 2.0
; SEQ ID NO 3859
; LENGTH: 7
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: example ZFP
US-09-989-994-3859

Query Match          100.0%; Score 36; DB 11; Length 7;
Best Local Similarity 100.0%; Pred. No. 7e+05;
Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 RSDHLSR 7
   |||||
Db 1 RSDHLSR 7

RESULT 334
US-09-989-994-3860
; Sequence 3860, Application US/09989994
; Publication No. US20030104526A1
; GENERAL INFORMATION:
; APPLICANT: LIU, Qiang
; TITLE OF INVENTION: POSITION DEPENDENT RECOGNITION OF GNN NUCLEOTIDE
; FILE REFERENCE: 8325-0011.20 / S11-US2
; CURRENT APPLICATION NUMBER: US/09/989,994
; CURRENT FILING DATE: 2001-11-20
; NUMBER OF SEQ ID NOS: 4085
; SOFTWARE: Patentin Ver. 2.0
; SEQ ID NO 3860
; LENGTH: 7
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: example ZFP
US-09-989-994-3860

Query Match          100.0%; Score 36; DB 11; Length 7;
Best Local Similarity 100.0%; Pred. No. 7e+05;
Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 RSDHLSR 7
   |||||
Db 1 RSDHLSR 7

RESULT 335
US-09-989-994-3881
; Sequence 3881, Application US/09989994
; Publication No. US20030104526A1
; GENERAL INFORMATION:
; APPLICANT: LIU, Qiang
; TITLE OF INVENTION: POSITION DEPENDENT RECOGNITION OF GNN NUCLEOTIDE
; FILE REFERENCE: 8325-0011.20 / S11-US2
; CURRENT APPLICATION NUMBER: US/09/989,994
; CURRENT FILING DATE: 2001-11-20
; NUMBER OF SEQ ID NOS: 4085
; SOFTWARE: Patentin Ver. 2.0
; SEQ ID NO 3881
; LENGTH: 7
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: example ZFP
US-09-989-994-3881

Query Match          100.0%; Score 36; DB 11; Length 7;
Best Local Similarity 100.0%; Pred. No. 7e+05;
Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 RSDHLSR 7
   |||||
Db 1 RSDHLSR 7

RESULT 336
US-09-989-994-3882
; Sequence 3882, Application US/09989994
; Publication No. US20030104526A1
; GENERAL INFORMATION:
; APPLICANT: LIU, Qiang
; TITLE OF INVENTION: POSITION DEPENDENT RECOGNITION OF GNN NUCLEOTIDE
; FILE REFERENCE: 8325-0011.20 / S11-US2
; CURRENT APPLICATION NUMBER: US/09/989,994
; CURRENT FILING DATE: 2001-11-20
; NUMBER OF SEQ ID NOS: 4085
; SOFTWARE: Patentin Ver. 2.0
; SEQ ID NO 3882
; LENGTH: 7
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: example ZFP
US-09-989-994-3882

Query Match          100.0%; Score 36; DB 11; Length 7;
Best Local Similarity 100.0%; Pred. No. 7e+05;
Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 RSDHLSR 7
   |||||
Db 1 RSDHLSR 7

RESULT 337
US-09-989-994-3890
; Sequence 3890, Application US/09989994
; Publication No. US20030104526A1
; GENERAL INFORMATION:
; APPLICANT: LIU, Qiang
; TITLE OF INVENTION: POSITION DEPENDENT RECOGNITION OF GNN NUCLEOTIDE
; FILE REFERENCE: 8325-0011.20 / S11-US2
; CURRENT APPLICATION NUMBER: US/09/989,994
; CURRENT FILING DATE: 2001-11-20
; NUMBER OF SEQ ID NOS: 4085
; SOFTWARE: Patentin Ver. 2.0
; SEQ ID NO 3890
; LENGTH: 7
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: example ZFP
US-09-989-994-3890
```

FEATURE:

OTHER INFORMATION: Description of Artificial Sequence: example ZFP
US-09-989-994-3890

Query Match 100.0%; Score 36; DB 11; Length 7;
Best Local Similarity 100.0%; Pred. No. 7e+05; Indels 0; Gaps 0;
Matches 7; Conservative 0; Mismatches 0;

QY 1 RSDHLSR 7
1 RSDHLSR 7
DB 1 RSDHLSR 7

RESULT 338

US-09-989-994-3892
Sequence 3892, Application US/09989994
Publication No. US20030104526A1

GENERAL INFORMATION:

APPLICANT: LIU, Qiang

TITLE OF INVENTION: POSITION DEPENDENT RECOGNITION OF GNN NUCLEOTIDE

FILE REFERENCE: 8325-0011.20 / S11-US2

CURRENT APPLICATION NUMBER: US/09/989,994

CURRENT FILING DATE: 2001-11-20

NUMBER OF SEQ ID NOS: 4085

SOFTWARE: PatentIn Ver. 2.0

SEQ ID NO 3892

LENGTH: 7

TYPE: PRT

ORGANISM: Artificial Sequence

FEATURE:

OTHER INFORMATION: Description of Artificial Sequence: example ZFP
US-09-989-994-3892

Query Match 100.0%; Score 36; DB 11; Length 7;
Best Local Similarity 100.0%; Pred. No. 7e+05; Indels 0; Gaps 0;
Matches 7; Conservative 0; Mismatches 0;

QY 1 RSDHLSR 7
1 RSDHLSR 7
DB 1 RSDHLSR 7

RESULT 339

US-09-989-994-3951
Sequence 3951, Application US/09989994
Publication No. US20030104526A1

GENERAL INFORMATION:

APPLICANT: LIU, Qiang

TITLE OF INVENTION: POSITION DEPENDENT RECOGNITION OF GNN NUCLEOTIDE

FILE REFERENCE: 8325-0011.20 / S11-US2

CURRENT APPLICATION NUMBER: US/09/989,994

CURRENT FILING DATE: 2001-11-20

NUMBER OF SEQ ID NOS: 4085

SOFTWARE: PatentIn Ver. 2.0

SEQ ID NO 3951

LENGTH: 7

TYPE: PRT

ORGANISM: Artificial Sequence

FEATURE:

OTHER INFORMATION: Description of Artificial Sequence: example ZFP
US-09-989-994-3951

Query Match 100.0%; Score 36; DB 11; Length 7;
Best Local Similarity 100.0%; Pred. No. 7e+05; Indels 0; Gaps 0;
Matches 7; Conservative 0; Mismatches 0;

QY 1 RSDHLSR 7
1 RSDHLSR 7
DB 1 RSDHLSR 7

RESULT 340

US-09-989-994-3952
Sequence 3952, Application US/09989994
Publication No. US20030104526A1

GENERAL INFORMATION:

APPLICANT: LIU, Qiang

TITLE OF INVENTION: POSITION DEPENDENT RECOGNITION OF GNN NUCLEOTIDE

FILE REFERENCE: 8325-0011.20 / S11-US2

CURRENT APPLICATION NUMBER: US/09/989,994

CURRENT FILING DATE: 2001-11-20

NUMBER OF SEQ ID NOS: 4085

SOFTWARE: PatentIn Ver. 2.0

SEQ ID NO 3952

LENGTH: 7

TYPE: PRT

ORGANISM: Artificial Sequence

FEATURE:

OTHER INFORMATION: Description of Artificial Sequence: example ZFP
US-09-989-994-3952

Query Match 100.0%; Score 36; DB 11; Length 7;
Best Local Similarity 100.0%; Pred. No. 7e+05; Indels 0; Gaps 0;
Matches 7; Conservative 0; Mismatches 0;

QY 1 RSDHLSR 7
1 RSDHLSR 7
DB 1 RSDHLSR 7

RESULT 341

US-09-989-994-3999
Sequence 3999, Application US/09989994
Publication No. US20030104526A1

GENERAL INFORMATION:

APPLICANT: LIU, Qiang

TITLE OF INVENTION: POSITION DEPENDENT RECOGNITION OF GNN NUCLEOTIDE

FILE REFERENCE: 8325-0011.20 / S11-US2

CURRENT APPLICATION NUMBER: US/09/989,994

CURRENT FILING DATE: 2001-11-20

NUMBER OF SEQ ID NOS: 4085

SOFTWARE: PatentIn Ver. 2.0

SEQ ID NO 3999

LENGTH: 7

TYPE: PRT

ORGANISM: Artificial Sequence

FEATURE:

OTHER INFORMATION: Description of Artificial Sequence: example ZFP
US-09-989-994-3999

Query Match 100.0%; Score 36; DB 11; Length 7;
Best Local Similarity 100.0%; Pred. No. 7e+05; Indels 0; Gaps 0;
Matches 7; Conservative 0; Mismatches 0;

QY 1 RSDHLSR 7
1 RSDHLSR 7
DB 1 RSDHLSR 7

RESULT 342

US-09-989-994-4006
Sequence 4006, Application US/09989994
Publication No. US20030104526A1

GENERAL INFORMATION:

APPLICANT: LIU, Qiang

TITLE OF INVENTION: POSITION DEPENDENT RECOGNITION OF GNN NUCLEOTIDE

FILE REFERENCE: 8325-0011.20 / S11-US2

CURRENT APPLICATION NUMBER: US/09/989,994

CURRENT FILING DATE: 2001-11-20

NUMBER OF SEQ ID NOS: 4085

SOFTWARE: PatentIn Ver. 2.0

SEQ ID NO 4006
LENGTH: 7
TYPE: PRT
ORGANISM: Artificial Sequence
FEATURE:
OTHER INFORMATION: Description of Artificial Sequence: example ZFP
US-09-989-994-4006

Query Match 100.0%; Score 36; DB 11; Length 7;
Best Local Similarity 100.0%; Pred. No. 7e+05;
Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 RSDHLR 7
Db 1 RSDHLR 7

RESULT 343
US-10-245-415B-58
Sequence 58, Application US/10245415B
Publication No. US20030166141A1
GENERAL INFORMATION:
APPLICANT: Casey, Casey Christopher
APPLICANT: Cox III, George N.
APPLICANT: Eisenberg, Stephen P.
APPLICANT: Liu, Qiang
APPLICANT: Rebar, Edward J.
TITLE OF INVENTION: REGULATION OF ENDOGENOUS GENE EXPRESSION IN CELLS
FILE REFERENCE: 8325-0002.22 / S2-US7
CURRENT FILING DATE: 2002-09-16
NUMBER OF SEQ ID NOS: 67
SOFTWARE: PatentIn Ver. 2.0
SEQ ID NO 58
LENGTH: 7
TYPE: PRT
ORGANISM: Artificial Sequence
FEATURE:
OTHER INFORMATION: Description of Artificial Sequence: recognition helix
US-10-245-415B-58

Query Match 100.0%; Score 36; DB 12; Length 7;
Best Local Similarity 100.0%; Pred. No. 7e+05;
Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 RSDHLR 7
Db 1 RSDHLR 7

RESULT 344
US-10-412-105-44
Sequence 44, Application US/10412105
Publication No. US20030175790A1
GENERAL INFORMATION:
APPLICANT: Casey, Casey
TITLE OF INVENTION: CELLS FOR DRUG DISCOVERY
FILE REFERENCE: 8325-0010
CURRENT APPLICATION NUMBER: US/10/412,105
CURRENT FILING DATE: 2003-04-10
PRIOR APPLICATION NUMBER: 09/779,233
PRIOR FILING DATE: 2001-02-08
NUMBER OF SEQ ID NOS: 45
SOFTWARE: PatentIn Ver. 2.0
SEQ ID NO 44
LENGTH: 7
TYPE: PRT
ORGANISM: Artificial Sequence
FEATURE:
OTHER INFORMATION: Description of Artificial Sequence: recognition
US-10-412-105-44

Query Match 100.0%; Score 36; DB 12; Length 7;
Best Local Similarity 100.0%; Pred. No. 7e+05;
Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 RSDHLR 7
Db 1 RSDHLR 7

RESULT 345
US-10-412-109-44
Sequence 44, Application US/10412109
Publication No. US20030180713A1
GENERAL INFORMATION:
APPLICANT: Casey, Casey
TITLE OF INVENTION: CELLS FOR DRUG DISCOVERY
FILE REFERENCE: 8325-0010
CURRENT APPLICATION NUMBER: US/10/412,109
CURRENT FILING DATE: 2003-04-10
PRIOR APPLICATION NUMBER: US/09/779,233
PRIOR FILING DATE: 2001-02-08
NUMBER OF SEQ ID NOS: 45
SOFTWARE: PatentIn Ver. 2.0
SEQ ID NO 44
LENGTH: 7
TYPE: PRT
ORGANISM: Artificial Sequence
FEATURE:
OTHER INFORMATION: Description of Artificial Sequence: recognition
US-10-412-109-44

Query Match 100.0%; Score 36; DB 12; Length 7;
Best Local Similarity 100.0%; Pred. No. 7e+05;
Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 RSDHLR 7
Db 1 RSDHLR 7

RESULT 346
US-10-418-552-48
Sequence 48, Application US/10418552
Publication No. US20030233672A1
GENERAL INFORMATION:
APPLICANT: Li, Guofu
APPLICANT: Liu, Qiang
APPLICANT: Jamison, Andrew
APPLICANT: Rebar, Edward
APPLICANT: VAN EENENNAAM, Alison
APPLICANT: VENKATRAHESH, Mylavataru
TITLE OF INVENTION: COMPOSITION AND METHODS FOR REGULATION OF PLANT GAMMA-METHYLTRANSFERASE
FILE REFERENCE: 8325-0029 (S29-US1)
CURRENT APPLICATION NUMBER: US/10/418,552
CURRENT FILING DATE: 2003-04-17
PRIOR APPLICATION NUMBER: 60/373,488
PRIOR FILING DATE: 2002-04-17
PRIOR APPLICATION NUMBER: 60/385,992
PRIOR FILING DATE: 2002-06-04
PRIOR APPLICATION NUMBER: 60/442,470
PRIOR FILING DATE: 2003-01-24
NUMBER OF SEQ ID NOS: 172
SOFTWARE: PatentIn version 3.2
SEQ ID NO 48
LENGTH: 7
TYPE: PRT
ORGANISM: Artificial
FEATURE:
OTHER INFORMATION: AGMT7 F3
US-10-418-552-48

Query Match 100.0%; Score 36; DB 12; Length 7;
Best Local Similarity 100.0%; Pred. No. 7e+05;
Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 RSDHLSR 7
|||||
DB 1 RSDHLSR 7

RESULT 347

US-10-006-069A-64
Sequence 64, Application US/10006069A
Publication No. US20030021776A1
GENERAL INFORMATION:
APPLICANT: Rebar, Edward
APPLICANT: Jamieson, Andrew
APPLICANT: Liu, Qiang
APPLICANT: Liu, Pei-Qi
APPLICANT: Wolfe, Alan
APPLICANT: Eisenberg, Stephen P.
APPLICANT: Jarvis, Eric
APPLICANT: Sangamo Biosciences, Inc.
TITLE OF INVENTION: Regulation of Angiogenesis With Zinc
FILE REFERENCE: 019496-005830US
CURRENT APPLICATION NUMBER: US/10/006,069A
CURRENT FILING DATE: 2001-12-17
PRIOR APPLICATION NUMBER: US 09/736,604
PRIOR FILING DATE: 2000-12-07
PRIOR FILING DATE: 2000-12-12
PRIOR APPLICATION NUMBER: US 09/846,033
PRIOR FILING DATE: 2001-04-30
NUMBER OF SEQ ID NOS: 252
SOFTWARE: FastSeq for Windows Version 3.0
SEQ ID NO 64
LENGTH: 7
TYPE: PRT
ORGANISM: Artificial Sequence
FEATURE:
OTHER INFORMATION: finger
US-10-006-069A-64
Query Match 100.0%; Score 36; DB 15; Length 7;
Best Local Similarity 100.0%; Pred. No. 7e+05;
Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 RSDHLSR 7
|||||
DB 1 RSDHLSR 7

RESULT 348

US-10-006-069A-68
Sequence 68, Application US/10006069A
Publication No. US20030021776A1
GENERAL INFORMATION:
APPLICANT: Rebar, Edward
APPLICANT: Jamieson, Andrew
APPLICANT: Liu, Qiang
APPLICANT: Liu, Pei-Qi
APPLICANT: Wolfe, Alan
APPLICANT: Eisenberg, Stephen P.
APPLICANT: Jarvis, Eric
APPLICANT: Sangamo Biosciences, Inc.
TITLE OF INVENTION: Regulation of Angiogenesis With Zinc
FILE REFERENCE: 019496-005830US
CURRENT APPLICATION NUMBER: US/10/006,069A
CURRENT FILING DATE: 2001-12-17
PRIOR APPLICATION NUMBER: US 09/733,604
PRIOR FILING DATE: 2000-12-07

PRIOR APPLICATION NUMBER: US 09/736,083
PRIOR FILING DATE: 2000-12-12
PRIOR APPLICATION NUMBER: US 09/846,033
PRIOR FILING DATE: 2001-04-30
NUMBER OF SEQ ID NOS: 252
SOFTWARE: FastSeq for Windows Version 3.0
SEQ ID NO 68
LENGTH: 7
TYPE: PRT
ORGANISM: Artificial Sequence
FEATURE:
OTHER INFORMATION: finger
US-10-006-069A-68

Query Match 100.0%; Score 36; DB 15; Length 7;
Best Local Similarity 100.0%; Pred. No. 7e+05;
Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 RSDHLSR 7
|||||
DB 1 RSDHLSR 7

RESULT 349

US-10-006-069A-91
Sequence 91, Application US/10006069A
Publication No. US20030021776A1
GENERAL INFORMATION:
APPLICANT: Rebar, Edward
APPLICANT: Jamieson, Andrew
APPLICANT: Liu, Qiang
APPLICANT: Liu, Pei-Qi
APPLICANT: Wolfe, Alan
APPLICANT: Eisenberg, Stephen P.
APPLICANT: Jarvis, Eric
APPLICANT: Sangamo Biosciences, Inc.
TITLE OF INVENTION: Regulation of Angiogenesis With Zinc
FILE REFERENCE: 019496-005830US
CURRENT APPLICATION NUMBER: US/10/006,069A
CURRENT FILING DATE: 2001-12-17
PRIOR APPLICATION NUMBER: US 09/733,604
PRIOR FILING DATE: 2000-12-07
PRIOR APPLICATION NUMBER: US 09/736,083
PRIOR FILING DATE: 2000-12-12
PRIOR APPLICATION NUMBER: US 09/846,033
PRIOR FILING DATE: 2001-04-30
NUMBER OF SEQ ID NOS: 252
SOFTWARE: FastSeq for Windows Version 3.0
SEQ ID NO 91
LENGTH: 7
TYPE: PRT
ORGANISM: Artificial Sequence
FEATURE:
OTHER INFORMATION: finger
US-10-006-069A-91

Query Match 100.0%; Score 36; DB 15; Length 7;
Best Local Similarity 100.0%; Pred. No. 7e+05;
Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 RSDHLSR 7
|||||
DB 1 RSDHLSR 7

RESULT 350

US-10-006-069A-101
Sequence 101, Application US/10006069A
Publication No. US20030021776A1
GENERAL INFORMATION:
APPLICANT: Rebar, Edward
APPLICANT: Jamieson, Andrew

APPLICANT: Liu, Qiang
APPLICANT: Liu, Pei-Qi
APPLICANT: Wolfe, Alan
APPLICANT: Eisenberg, Stephen P.
APPLICANT: Jarvis, Eric
APPLICANT: Sangamo Biosciences, Inc.
TITLE OF INVENTION: Regulation of Angiogenesis With Zinc
FILE REFERENCE: 019496-005830US
CURRENT APPLICATION NUMBER: US/10/006,069A
CURRENT FILING DATE: 2001-12-17
PRIOR APPLICATION NUMBER: US 09/733,604
PRIOR FILING DATE: 2000-12-07
PRIOR APPLICATION NUMBER: US 09/736,083
PRIOR FILING DATE: 2000-12-12
PRIOR APPLICATION NUMBER: US 09/846,033
PRIOR FILING DATE: 2001-04-30
NUMBER OF SEQ ID NOS: 252
SOFTWARE: FastSeq for Windows Version 3.0
SEQ ID NO 101
LENGTH: 7
TYPE: PRT
ORGANISM: Artificial Sequence
FEATURE:
OTHER INFORMATION: finger
US-10-006-069A-101

Query Match 100.0%; Score 36; DB 15; Length 7;
Best Local Similarity 100.0%; Pred. No. 7e+05;
Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 RSDHLR 7
Db 1 RSDHLR 7

RESULT 351
US-10-006-069A-102

Sequence 102, Application US/10006069A
Publication No. US20030021776A1
GENERAL INFORMATION:
APPLICANT: Rebar, Edward
APPLICANT: Jamieson, Andrew
APPLICANT: Liu, Qiang
APPLICANT: Wolfe, Alan
APPLICANT: Eisenberg, Stephen P.
APPLICANT: Jarvis, Eric
APPLICANT: Sangamo Biosciences, Inc.
TITLE OF INVENTION: Regulation of Angiogenesis With Zinc
FILE REFERENCE: 019496-005830US
CURRENT APPLICATION NUMBER: US/10/006,069A
CURRENT FILING DATE: 2001-12-17
PRIOR APPLICATION NUMBER: US 09/733,604
PRIOR FILING DATE: 2000-12-07
PRIOR APPLICATION NUMBER: US 09/736,083
PRIOR FILING DATE: 2000-12-12
PRIOR APPLICATION NUMBER: US 09/846,033
PRIOR FILING DATE: 2001-04-30
NUMBER OF SEQ ID NOS: 252
SOFTWARE: FastSeq for Windows Version 3.0
SEQ ID NO 102
LENGTH: 7
TYPE: PRT
ORGANISM: Artificial Sequence
FEATURE:
OTHER INFORMATION: finger
US-10-006-069A-102

Query Match 100.0%; Score 36; DB 15; Length 7;
Best Local Similarity 100.0%; Pred. No. 7e+05;
Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 RSDHLR 7
Db 1 RSDHLR 7

RESULT 352
US-10-006-069A-103
Sequence 103, Application US/10006069A
Publication No. US20030021776A1
GENERAL INFORMATION:
APPLICANT: Rebar, Edward
APPLICANT: Jamieson, Andrew
APPLICANT: Liu, Qiang
APPLICANT: Wolfe, Alan
APPLICANT: Eisenberg, Stephen P.
APPLICANT: Jarvis, Eric
APPLICANT: Sangamo Biosciences, Inc.
TITLE OF INVENTION: Regulation of Angiogenesis With Zinc
FILE REFERENCE: 019496-005830US
CURRENT APPLICATION NUMBER: US/10/006,069A
CURRENT FILING DATE: 2001-12-17
PRIOR APPLICATION NUMBER: US 09/733,604
PRIOR FILING DATE: 2000-12-07
PRIOR APPLICATION NUMBER: US 09/736,083
PRIOR FILING DATE: 2000-12-12
PRIOR APPLICATION NUMBER: US 09/846,033
PRIOR FILING DATE: 2001-04-30
NUMBER OF SEQ ID NOS: 252
SOFTWARE: FastSeq for Windows Version 3.0
SEQ ID NO 103
LENGTH: 7
TYPE: PRT
ORGANISM: Artificial Sequence
FEATURE:
OTHER INFORMATION: finger
US-10-006-069A-103

Query Match 100.0%; Score 36; DB 15; Length 7;
Best Local Similarity 100.0%; Pred. No. 7e+05;
Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 RSDHLR 7
Db 1 RSDHLR 7

RESULT 353
US-10-006-069A-104
Sequence 104, Application US/10006069A
Publication No. US20030021776A1
GENERAL INFORMATION:
APPLICANT: Rebar, Edward
APPLICANT: Jamieson, Andrew
APPLICANT: Liu, Qiang
APPLICANT: Wolfe, Alan
APPLICANT: Eisenberg, Stephen P.
APPLICANT: Jarvis, Eric
APPLICANT: Sangamo Biosciences, Inc.
TITLE OF INVENTION: Regulation of Angiogenesis With Zinc
FILE REFERENCE: 019496-005830US
CURRENT APPLICATION NUMBER: US/10/006,069A
CURRENT FILING DATE: 2001-12-17
PRIOR APPLICATION NUMBER: US 09/733,604
PRIOR FILING DATE: 2000-12-07
PRIOR APPLICATION NUMBER: US 09/736,083
PRIOR FILING DATE: 2000-12-12
PRIOR APPLICATION NUMBER: US 09/846,033
PRIOR FILING DATE: 2001-04-30

NUMBER OF SEQ ID NOS: 252
 SOFTWARE: FastSeq for Windows Version 3.0
 SEQ ID NO 104
 LENGTH: 7
 TYPE: PRT
 ORGANISM: Artificial Sequence
 FEATURE:
 OTHER INFORMATION: finger
 US-10-006-069A-104

Query Match
 Best Local Similarity 100.0%; Score 36; DB 15; Length 7;
 Pred. No. 7e+05;
 Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 RSDHLSR 7
 |||||
 DB 1 RSDHLSR 7

RESULT 354
 US-10-006-069A-105
 Sequence 105, Application US/10006069A
 Publication No. US20030021776A1
 GENERAL INFORMATION:

APPLICANT: Rebar, Edward
 APPLICANT: Jamieson, Andrew
 APPLICANT: Liu, Qiang
 APPLICANT: Wolfe, Alan
 APPLICANT: Eisenberg, Stephen P.
 APPLICANT: Jarvis, Eric
 APPLICANT: Sangamo Biosciences, Inc.
 TITLE OF INVENTION: Regulation of Angiogenesis With Zinc
 FILE REFERENCE: 019496-005830US
 CURRENT APPLICATION NUMBER: US/10/006,069A
 PRIOR FILING DATE: 2001-12-17
 PRIOR APPLICATION NUMBER: US 09/733,604
 PRIOR FILING DATE: 2000-12-07
 PRIOR APPLICATION NUMBER: US 09/736,083
 PRIOR FILING DATE: 2000-12-12
 PRIOR APPLICATION NUMBER: US 09/846,033
 PRIOR FILING DATE: 2001-04-30
 NUMBER OF SEQ ID NOS: 252
 SOFTWARE: FastSeq for Windows Version 3.0
 SEQ ID NO 105
 LENGTH: 7
 TYPE: PRT
 ORGANISM: Artificial Sequence
 FEATURE:
 OTHER INFORMATION: finger
 US-10-006-069A-105

Query Match
 Best Local Similarity 100.0%; Score 36; DB 15; Length 7;
 Pred. No. 7e+05;
 Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 RSDHLSR 7
 |||||
 DB 1 RSDHLSR 7

RESULT 355
 US-10-006-069A-106
 Sequence 106, Application US/10006069A
 Publication No. US20030021776A1
 GENERAL INFORMATION:

APPLICANT: Rebar, Edward
 APPLICANT: Jamieson, Andrew
 APPLICANT: Liu, Qiang
 APPLICANT: Wolfe, Alan
 APPLICANT: Eisenberg, Stephen P.

APPLICANT: Jarvis, Eric
 APPLICANT: Sangamo Biosciences, Inc.
 TITLE OF INVENTION: Regulation of Angiogenesis With Zinc
 FILE REFERENCE: 019496-005830US
 CURRENT APPLICATION NUMBER: US/10/006,069A
 PRIOR FILING DATE: 2001-12-17
 PRIOR APPLICATION NUMBER: US 09/733,604
 PRIOR FILING DATE: 2000-12-07
 PRIOR APPLICATION NUMBER: US 09/736,083
 PRIOR FILING DATE: 2000-12-12
 PRIOR APPLICATION NUMBER: US 09/846,033
 PRIOR FILING DATE: 2001-04-30
 NUMBER OF SEQ ID NOS: 252
 SOFTWARE: FastSeq for Windows Version 3.0
 SEQ ID NO 106
 LENGTH: 7
 TYPE: PRT
 ORGANISM: Artificial Sequence
 FEATURE:
 OTHER INFORMATION: finger
 US-10-006-069A-106

Query Match
 Best Local Similarity 100.0%; Score 36; DB 15; Length 7;
 Pred. No. 7e+05;
 Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 RSDHLSR 7
 |||||
 DB 1 RSDHLSR 7

RESULT 356
 US-10-006-069A-109
 Sequence 109, Application US/10006069A
 Publication No. US20030021776A1
 GENERAL INFORMATION:
 APPLICANT: Rebar, Edward
 APPLICANT: Jamieson, Andrew
 APPLICANT: Liu, Qiang
 APPLICANT: Wolfe, Alan
 APPLICANT: Eisenberg, Stephen P.
 APPLICANT: Jarvis, Eric
 APPLICANT: Sangamo Biosciences, Inc.
 TITLE OF INVENTION: Regulation of Angiogenesis With Zinc
 FILE REFERENCE: 019496-005830US
 CURRENT APPLICATION NUMBER: US/10/006,069A
 PRIOR FILING DATE: 2001-12-17
 PRIOR APPLICATION NUMBER: US 09/733,604
 PRIOR FILING DATE: 2000-12-07
 PRIOR APPLICATION NUMBER: US 09/736,083
 PRIOR FILING DATE: 2000-12-12
 PRIOR APPLICATION NUMBER: US 09/846,033
 PRIOR FILING DATE: 2001-04-30
 NUMBER OF SEQ ID NOS: 252
 SOFTWARE: FastSeq for Windows Version 3.0
 SEQ ID NO 109
 LENGTH: 7
 TYPE: PRT
 ORGANISM: Artificial Sequence
 FEATURE:
 OTHER INFORMATION: finger
 US-10-006-069A-109

Query Match
 Best Local Similarity 100.0%; Score 36; DB 15; Length 7;
 Pred. No. 7e+05;
 Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 RSDHLSR 7
 |||||
 DB 1 RSDHLSR 7

RESULT 357

US-10-006-069A-111
Sequence 111, Application US/10006069A
Publication No. US20030021776A1
GENERAL INFORMATION:
APPLICANT: Rebar, Edward
APPLICANT: Jamieson, Andrew
APPLICANT: Liu, Qiang
APPLICANT: Wolfe, Alan
APPLICANT: Eisenberg, Stephen P.
APPLICANT: Jarvis, Eric
APPLICANT: Sangamo Biosciences, Inc.
TITLE OF INVENTION: Regulation of Angiogenesis With Zinc
FILE REFERENCE: 019496-005830US
CURRENT APPLICATION NUMBER: US/10/006,069A
CURRENT FILING DATE: 2001-12-17
PRIOR APPLICATION NUMBER: US 09/733,604
PRIOR FILING DATE: 2000-12-07
PRIOR APPLICATION NUMBER: US 09/736,083
PRIOR FILING DATE: 2000-12-12
PRIOR APPLICATION NUMBER: US 09/846,033
PRIOR FILING DATE: 2001-04-30
NUMBER OF SEQ ID NOS: 252
SOFTWARE: FastSeq for Windows Version 3.0
SEQ ID NO 111
LENGTH: 7
TYPE: PRT
ORGANISM: Artificial Sequence
FEATURE:
OTHER INFORMATION: finger
US-10-006-069A-111

Query Match
Best Local Similarity 100.0%; Score 36; DB 15; Length 7;
Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

RESULT 358

US-10-006-069A-113
Sequence 113, Application US/10006069A
Publication No. US20030021776A1
GENERAL INFORMATION:
APPLICANT: Rebar, Edward
APPLICANT: Jamieson, Andrew
APPLICANT: Liu, Qiang
APPLICANT: Wolfe, Alan
APPLICANT: Eisenberg, Stephen P.
APPLICANT: Jarvis, Eric
APPLICANT: Sangamo Biosciences, Inc.
TITLE OF INVENTION: Regulation of Angiogenesis With Zinc
FILE REFERENCE: 019496-005830US
CURRENT APPLICATION NUMBER: US/10/006,069A
CURRENT FILING DATE: 2001-12-17
PRIOR APPLICATION NUMBER: US 09/733,604
PRIOR FILING DATE: 2000-12-07
PRIOR APPLICATION NUMBER: US 09/736,083
PRIOR FILING DATE: 2000-12-12
PRIOR APPLICATION NUMBER: US 09/846,033
PRIOR FILING DATE: 2001-04-30
NUMBER OF SEQ ID NOS: 252
SOFTWARE: FastSeq for Windows Version 3.0
SEQ ID NO 113
LENGTH: 7

TYPE: PRT
ORGANISM: Artificial Sequence
FEATURE:
OTHER INFORMATION: finger
US-10-006-069A-113

Query Match
Best Local Similarity 100.0%; Score 36; DB 15; Length 7;
Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 RSDHLR 7
DB 1 RSDHLR 7

RESULT 359

US-10-006-069A-114
Sequence 114, Application US/10006069A
Publication No. US20030021776A1
GENERAL INFORMATION:
APPLICANT: Rebar, Edward
APPLICANT: Jamieson, Andrew
APPLICANT: Liu, Qiang
APPLICANT: Wolfe, Alan
APPLICANT: Eisenberg, Stephen P.
APPLICANT: Jarvis, Eric
APPLICANT: Sangamo Biosciences, Inc.
TITLE OF INVENTION: Regulation of Angiogenesis With Zinc
FILE REFERENCE: 019496-005830US
CURRENT APPLICATION NUMBER: US/10/006,069A
CURRENT FILING DATE: 2001-12-17
PRIOR APPLICATION NUMBER: US 09/733,604
PRIOR FILING DATE: 2000-12-07
PRIOR APPLICATION NUMBER: US 09/736,083
PRIOR FILING DATE: 2000-12-12
PRIOR APPLICATION NUMBER: US 09/846,033
PRIOR FILING DATE: 2001-04-30
NUMBER OF SEQ ID NOS: 252
SOFTWARE: FastSeq for Windows Version 3.0
SEQ ID NO 114
LENGTH: 7
TYPE: PRT
ORGANISM: Artificial Sequence
FEATURE:
OTHER INFORMATION: finger
US-10-006-069A-114

Query Match
Best Local Similarity 100.0%; Score 36; DB 15; Length 7;
Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 RSDHLR 7
DB 1 RSDHLR 7

RESULT 360

US-10-006-069A-116
Sequence 116, Application US/10006069A
Publication No. US20030021776A1
GENERAL INFORMATION:
APPLICANT: Rebar, Edward
APPLICANT: Jamieson, Andrew
APPLICANT: Liu, Qiang
APPLICANT: Wolfe, Alan
APPLICANT: Eisenberg, Stephen P.
APPLICANT: Jarvis, Eric
APPLICANT: Sangamo Biosciences, Inc.
TITLE OF INVENTION: Regulation of Angiogenesis With Zinc
FILE REFERENCE: 019496-005830US
CURRENT APPLICATION NUMBER: US/10/006,069A
CURRENT FILING DATE: 2001-12-17
PRIOR APPLICATION NUMBER: US 09/733,604
PRIOR FILING DATE: 2000-12-07
PRIOR APPLICATION NUMBER: US 09/736,083
PRIOR FILING DATE: 2000-12-12
PRIOR APPLICATION NUMBER: US 09/846,033
PRIOR FILING DATE: 2001-04-30
NUMBER OF SEQ ID NOS: 252
SOFTWARE: FastSeq for Windows Version 3.0
SEQ ID NO 116
LENGTH: 7

FILE REFERENCE: 019496-005830US
CURRENT APPLICATION NUMBER: US/10/006,069A
CURRENT FILING DATE: 2001-12-17
PRIOR APPLICATION NUMBER: US 09/733,604
PRIOR FILING DATE: 2000-12-07
PRIOR APPLICATION NUMBER: US 09/736,083
PRIOR FILING DATE: 2000-12-12
PRIOR APPLICATION NUMBER: US 09/846,033
PRIOR FILING DATE: 2001-04-30
NUMBER OF SEQ ID NOS: 252
SOFTWARE: FastSeq for Windows Version 3.0
SEQ ID NO 116
LENGTH: 7
TYPE: PRT
ORGANISM: Artificial Sequence
FEATURE:
OTHER INFORMATION: finger
US-10-006-069A-116

Query Match 100.0%; Score 36; DB 15; Length 7;
Best Local Similarity 100.0%; Pred. No. 7e+05;
Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 RSDHLR 7
DB 1 RSDHLR 7

RESULT 361
US-10-006-069A-154
Sequence 154, Application US/10006069A
Publication No. US20030021776A1
GENERAL INFORMATION:
APPLICANT: Rebar, Edward
APPLICANT: Jamieson, Andrew
APPLICANT: Liu, Qiang
APPLICANT: Wolfe, Alan
APPLICANT: Eisenberg, Stephen P.
APPLICANT: Jarvis, Eric
APPLICANT: Sangamo Biosciences, Inc.
TITLE OF INVENTION: Regulation of Angiogenesis With Zinc
FILE REFERENCE: 019496-005830US
CURRENT APPLICATION NUMBER: US/10/006,069A
CURRENT FILING DATE: 2001-12-17
PRIOR APPLICATION NUMBER: US 09/733,604
PRIOR FILING DATE: 2000-12-07
PRIOR APPLICATION NUMBER: US 09/736,083
PRIOR FILING DATE: 2000-12-12
PRIOR APPLICATION NUMBER: US 09/846,033
PRIOR FILING DATE: 2001-04-30
NUMBER OF SEQ ID NOS: 252
SOFTWARE: FastSeq for Windows Version 3.0
SEQ ID NO 154
LENGTH: 7
TYPE: PRT
ORGANISM: Artificial Sequence
FEATURE:
OTHER INFORMATION: finger
US-10-006-069A-154

Query Match 100.0%; Score 36; DB 15; Length 7;
Best Local Similarity 100.0%; Pred. No. 7e+05;
Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 RSDHLR 7
DB 1 RSDHLR 7

RESULT 362
US-10-006-069A-163

Sequence 163, Application US/10006069A
Publication No. US20030021776A1
GENERAL INFORMATION:
APPLICANT: Rebar, Edward
APPLICANT: Jamieson, Andrew
APPLICANT: Liu, Qiang
APPLICANT: Wolfe, Alan
APPLICANT: Eisenberg, Stephen P.
APPLICANT: Jarvis, Eric
APPLICANT: Sangamo Biosciences, Inc.
TITLE OF INVENTION: Regulation of Angiogenesis With Zinc
FILE REFERENCE: 019496-005830US
CURRENT APPLICATION NUMBER: US/10/006,069A
CURRENT FILING DATE: 2001-12-17
PRIOR APPLICATION NUMBER: US 09/733,604
PRIOR FILING DATE: 2000-12-07
PRIOR APPLICATION NUMBER: US 09/736,083
PRIOR FILING DATE: 2000-12-12
PRIOR APPLICATION NUMBER: US 09/846,033
PRIOR FILING DATE: 2001-04-30
NUMBER OF SEQ ID NOS: 252
SOFTWARE: FastSeq for Windows Version 3.0
SEQ ID NO 163
LENGTH: 7
TYPE: PRT
ORGANISM: Artificial Sequence
FEATURE:
OTHER INFORMATION: finger
US-10-006-069A-163

Query Match 100.0%; Score 36; DB 15; Length 7;
Best Local Similarity 100.0%; Pred. No. 7e+05;
Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 RSDHLR 7
DB 1 RSDHLR 7

RESULT 363
US-10-006-069A-169
Sequence 169, Application US/10006069A
Publication No. US20030021776A1
GENERAL INFORMATION:
APPLICANT: Rebar, Edward
APPLICANT: Jamieson, Andrew
APPLICANT: Liu, Qiang
APPLICANT: Wolfe, Alan
APPLICANT: Eisenberg, Stephen P.
APPLICANT: Jarvis, Eric
APPLICANT: Sangamo Biosciences, Inc.
TITLE OF INVENTION: Regulation of Angiogenesis With Zinc
FILE REFERENCE: 019496-005830US
CURRENT APPLICATION NUMBER: US/10/006,069A
CURRENT FILING DATE: 2001-12-17
PRIOR APPLICATION NUMBER: US 09/733,604
PRIOR FILING DATE: 2000-12-07
PRIOR APPLICATION NUMBER: US 09/736,083
PRIOR FILING DATE: 2000-12-12
PRIOR APPLICATION NUMBER: US 09/846,033
PRIOR FILING DATE: 2001-04-30
NUMBER OF SEQ ID NOS: 252
SOFTWARE: FastSeq for Windows Version 3.0
SEQ ID NO 169
LENGTH: 7
TYPE: PRT
ORGANISM: Artificial Sequence
FEATURE:
OTHER INFORMATION: finger

US-10-006-069A-169

Query Match 100.0%; Score 36; DB 15; Length 7;
Best Local Similarity 100.0%; Pred. No. 7e+05; 0;
Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 RSDHLR 7
DB 1 RSDHLR 7

RESULT 364

US-10-006-069A-172
Sequence 172, Application US/10006069A
Publication No. US20030021776A1
GENERAL INFORMATION:
APPLICANT: Rebar, Edward
APPLICANT: Jamieson, Andrew
APPLICANT: Liu, Qiang
APPLICANT: Liu, Pei-Qi
APPLICANT: Wolfe, Alan
APPLICANT: Eisenberg, Stephen P.
APPLICANT: Jarvis, Eric
APPLICANT: Sangamo Biosciences, Inc.
TITLE OF INVENTION: Regulation of Angiogenesis With Zinc
FILE REFERENCE: 019496-005830US
CURRENT APPLICATION NUMBER: US/10/006,069A
CURRENT FILING DATE: 2001-12-17
PRIOR APPLICATION NUMBER: US 09/733,604
PRIOR FILING DATE: 2000-12-07
PRIOR APPLICATION NUMBER: US 09/726,083
PRIOR FILING DATE: 2000-12-12
PRIOR APPLICATION NUMBER: US 09/846,033
PRIOR FILING DATE: 2001-04-30
NUMBER OF SEQ ID NOS: 252
SOFTWARE: FastSeq for Windows Version 3.0
SEQ ID NO 172
LENGTH: 7
TYPE: PRT
ORGANISM: Artificial Sequence
FEATURE:
OTHER INFORMATION: finger
US-10-006-069A-172

Query Match 100.0%; Score 36; DB 15; Length 7;
Best Local Similarity 100.0%; Pred. No. 7e+05; 0;
Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 RSDHLR 7
DB 1 RSDHLR 7

RESULT 365

US-10-006-069A-174
Sequence 174, Application US/10006069A
Publication No. US20030021776A1
GENERAL INFORMATION:
APPLICANT: Rebar, Edward
APPLICANT: Jamieson, Andrew
APPLICANT: Liu, Qiang
APPLICANT: Liu, Pei-Qi
APPLICANT: Wolfe, Alan
APPLICANT: Eisenberg, Stephen P.
APPLICANT: Jarvis, Eric
APPLICANT: Sangamo Biosciences, Inc.
TITLE OF INVENTION: Regulation of Angiogenesis With Zinc
FILE REFERENCE: 019496-005830US
CURRENT APPLICATION NUMBER: US/10/006,069A
CURRENT FILING DATE: 2001-12-17
PRIOR APPLICATION NUMBER: US 09/733,604

PRIOR FILING DATE: 2000-12-07
PRIOR APPLICATION NUMBER: US 09/736,083
PRIOR FILING DATE: 2000-12-12
PRIOR APPLICATION NUMBER: US 09/846,033
PRIOR FILING DATE: 2001-04-30
NUMBER OF SEQ ID NOS: 252
SOFTWARE: FastSeq for Windows Version 3.0
SEQ ID NO 174
LENGTH: 7
TYPE: PRT
ORGANISM: Artificial Sequence
FEATURE:
OTHER INFORMATION: finger
US-10-006-069A-174

Query Match 100.0%; Score 36; DB 15; Length 7;
Best Local Similarity 100.0%; Pred. No. 7e+05; 0;
Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 RSDHLR 7
DB 1 RSDHLR 7

RESULT 366

US-10-006-069A-177
Sequence 177, Application US/10006069A
Publication No. US20030021776A1
GENERAL INFORMATION:
APPLICANT: Rebar, Edward
APPLICANT: Jamieson, Andrew
APPLICANT: Liu, Qiang
APPLICANT: Liu, Pei-Qi
APPLICANT: Wolfe, Alan
APPLICANT: Eisenberg, Stephen P.
APPLICANT: Jarvis, Eric
APPLICANT: Sangamo Biosciences, Inc.
TITLE OF INVENTION: Regulation of Angiogenesis With Zinc
FILE REFERENCE: 019496-005830US
CURRENT APPLICATION NUMBER: US/10/006,069A
CURRENT FILING DATE: 2001-12-17
PRIOR APPLICATION NUMBER: US 09/733,604
PRIOR FILING DATE: 2000-12-07
PRIOR APPLICATION NUMBER: US 09/736,083
PRIOR FILING DATE: 2000-12-12
PRIOR APPLICATION NUMBER: US 09/846,033
PRIOR FILING DATE: 2001-04-30
NUMBER OF SEQ ID NOS: 252
SOFTWARE: FastSeq for Windows Version 3.0
SEQ ID NO 177
LENGTH: 7
TYPE: PRT
ORGANISM: Artificial Sequence
FEATURE:
OTHER INFORMATION: finger
US-10-006-069A-177

Query Match 100.0%; Score 36; DB 15; Length 7;
Best Local Similarity 100.0%; Pred. No. 7e+05; 0;
Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 RSDHLR 7
DB 1 RSDHLR 7

RESULT 367

US-10-006-069A-200
Sequence 200, Application US/10006069A
Publication No. US20030021776A1
GENERAL INFORMATION:
APPLICANT: Rebar, Edward

APPLICANT: Jamieson, Andrew
APPLICANT: Liu, Qiang
APPLICANT: Liu, Pei-Qi
APPLICANT: Wolfe, Alan
APPLICANT: Eisenberg, Stephen P.
APPLICANT: Jarvis, Eric
APPLICANT: Sangamo Biosciences, Inc.
TITLE OF INVENTION: Regulation of Angiogenesis with Zinc
TITLE OF INVENTION: Finger Proteins
FILE REFERENCE: 019496-005830US
CURRENT APPLICATION NUMBER: US/10/006,069A
PRIOR FILING DATE: 2001-12-17
PRIOR APPLICATION NUMBER: US 09/733,604
PRIOR FILING DATE: 2000-12-07
PRIOR APPLICATION NUMBER: US 09/736,083
PRIOR FILING DATE: 2000-12-12
PRIOR APPLICATION NUMBER: US 09/846,033
PRIOR FILING DATE: 2001-04-30
NUMBER OF SEQ ID NOS: 252
SOFTWARE: FastSeq for Windows Version 3.0
SEQ ID NO 200
LENGTH: 7
TYPE: PRT
ORGANISM: Artificial Sequence
FEATURE:
OTHER INFORMATION: recognition helix
US-10-006-069A-200

Query Match 100.0%; Score 36; DB 15; Length 7;
Best Local Similarity 100.0%; Pred. No. 7e+05;
Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 RSDHLSR 7
Db 1 RSDHLSR 7

RESULT 368
US-10-055-713-62
Sequence 62, Application US/10055713
Publication No. US20030044957A1
GENERAL INFORMATION:
APPLICANT: JAMIESON, Andrew
APPLICANT: LI, Guofu
TITLE OF INVENTION: ZINC FINGER PROTEINS FOR DNA BINDING AND GENE
FILE REFERENCE: 8325-0026 / S26-US1
CURRENT APPLICATION NUMBER: US/10/055,713
CURRENT FILING DATE: 2002-06-17
PRIOR APPLICATION NUMBER: 60/263,445
PRIOR FILING DATE: 2001-01-22
PRIOR APPLICATION NUMBER: 60/290,716
PRIOR FILING DATE: 2001-05-11
NUMBER OF SEQ ID NOS: 105
SOFTWARE: PatentIn Ver. 2.0
SEQ ID NO 62
LENGTH: 7
TYPE: PRT
ORGANISM: Artificial Sequence
FEATURE:
OTHER INFORMATION: Description of Artificial Sequence: ZFP 7 F3 recognition helix
US-10-055-713-62

Query Match 100.0%; Score 36; DB 15; Length 7;
Best Local Similarity 100.0%; Pred. No. 7e+05;
Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 RSDHLSR 7
Db 1 RSDHLSR 7

RESULT 369

US-10-084-826-5
Sequence 5, Application US/10084826
Publication No. US20030049649A1
GENERAL INFORMATION:
APPLICANT: WOLFE, Alan P.
APPLICANT: COLLINGWOOD, Trevor
TITLE OF INVENTION: TARGETED MODIFICATION OF CHROMATIN STRUCTURE
FILE REFERENCE: 8325-0014 / S14-US1
CURRENT APPLICATION NUMBER: US/10/084,826
CURRENT FILING DATE: 2002-02-24
PRIOR APPLICATION NUMBER: 09/844,508
PRIOR FILING DATE: 2001-04-27
PRIOR APPLICATION NUMBER: 60/228,523
PRIOR FILING DATE: 2000-08-28
NUMBER OF SEQ ID NOS: 49
SOFTWARE: PatentIn Ver. 2.0
SEQ ID NO 5
LENGTH: 7
TYPE: PRT
ORGANISM: Artificial Sequence
FEATURE:
OTHER INFORMATION: Description of Artificial Sequence: Veg 1 AA
US-10-084-826-5

Query Match 100.0%; Score 36; DB 15; Length 7;
Best Local Similarity 100.0%; Pred. No. 7e+05;
Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 RSDHLSR 7
Db 1 RSDHLSR 7

RESULT 370
US-10-055-711-66
Sequence 66, Application US/10055711
Publication No. US20030108880A1
GENERAL INFORMATION:
APPLICANT: REBAR, Edward
APPLICANT: JAMIESON, Andrew
TITLE OF INVENTION: MODIFIED ZINC FINGER BINDING PROTEINS
FILE REFERENCE: 8325-0025
CURRENT APPLICATION NUMBER: US/10/055,711
CURRENT FILING DATE: 2002-09-10
NUMBER OF SEQ ID NOS: 147
SOFTWARE: PatentIn Ver. 2.0
SEQ ID NO 66
LENGTH: 7
TYPE: PRT
ORGANISM: Artificial Sequence
FEATURE:
OTHER INFORMATION: Description of Artificial Sequence: ZFP #7 F3
US-10-055-711-66

Query Match 100.0%; Score 36; DB 15; Length 7;
Best Local Similarity 100.0%; Pred. No. 7e+05;
Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 RSDHLSR 7
Db 1 RSDHLSR 7

RESULT 371
US-09-779-233-3
Sequence 3, Application US/09779233
Patent No. US20020045158A1
GENERAL INFORMATION:
APPLICANT: Case, Casey
TITLE OF INVENTION: CELLS FOR DRUG DISCOVERY
FILE REFERENCE: 8325-0010
CURRENT APPLICATION NUMBER: US/09/779,233

CURRENT FILING DATE: 2001-02-08
NUMBER OF SEQ ID NOS: 45
SOFTWARE: Patentln Ver. 2.0
SEQ ID NO 3
LENGTH: 99
TYPE: PRT
ORGANISM: Artificial Sequence
FEATURE:
OTHER INFORMATION: Description of Artificial Sequence: ZFP-VEGF1
US-09-779-233-3

Query Match 100.0%; Score 36; DB 9; Length 99;
Best Local Similarity 100.0%; Pred. No. 5;
Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Cy 1 RSDHLSR 7
Db 81 RSDHLSR 87

RESULT 372
US-09-844-508-11
Sequence 11, Application US/09844508
Patent No. US20020115215A1
GENERAL INFORMATION:
APPLICANT: WOLFE, Alan P.
APPLICANT: COLLINGWOOD, Trevor
TITLE OF INVENTION: TARGETED MODIFICATION OF CHROMATIN STRUCTURE
FILE REFERENCE: 8325-0014 / S14-US1
CURRENT APPLICATION NUMBER: US/09/844,508
CURRENT FILING DATE: 2001-04-27
PRIOR APPLICATION NUMBER: 60/200,590
PRIOR FILING DATE: 2000-04-28
PRIOR APPLICATION NUMBER: 60/228,523
PRIOR FILING DATE: 2000-08-28
NUMBER OF SEQ ID NOS: 49
SOFTWARE: Patentln Ver. 2.0
SEQ ID NO 11
LENGTH: 99
TYPE: PRT
ORGANISM: Artificial Sequence
FEATURE:
OTHER INFORMATION: Description of Artificial Sequence: Veg1 amino
US-09-844-508-11

Query Match 100.0%; Score 36; DB 10; Length 99;
Best Local Similarity 100.0%; Pred. No. 5;
Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Cy 1 RSDHLSR 7
Db 81 RSDHLSR 87

RESULT 373
US-09-942-087A-15
Sequence 15, Application US/09942087A
Patent No. US20020160940A1
GENERAL INFORMATION:
APPLICANT: Case, Casey Christopher
APPLICANT: Wolfe, Alan
APPLICANT: Urtsov, Pyodor
APPLICANT: Lal, Albert
APPLICANT: Snowden, Andrew
APPLICANT: Tan, Siyuan
APPLICANT: Gregory, Philip
TITLE OF INVENTION: MODULATION OF ENDOGENOUS GENE EXPRESSION IN CELLS
FILE REFERENCE: 8325-0002.21 / S2-US5
CURRENT APPLICATION NUMBER: US/09/942,087A
CURRENT FILING DATE: 2001-08-28
PRIOR APPLICATION NUMBER: 09/229,037
PRIOR FILING DATE: 1999-01-12

NUMBER OF SEQ ID NOS: 43
SOFTWARE: Patentln Ver. 2.0
SEQ ID NO 15
LENGTH: 99
TYPE: PRT
ORGANISM: Artificial Sequence
FEATURE:
OTHER INFORMATION: Description of Artificial Sequence: VEGF1 ZFP
OTHER INFORMATION: construct targeting upstream 9-base pair target
OTHER INFORMATION: site in VEGF promoter
US-09-942-087A-15

Query Match 100.0%; Score 36; DB 10; Length 99;
Best Local Similarity 100.0%; Pred. No. 5;
Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Cy 1 RSDHLSR 7
Db 81 RSDHLSR 87

RESULT 374
US-09-897-844-15
Sequence 15, Application US/09897844
Patent No. US20030087817A1
GENERAL INFORMATION:
APPLICANT: Cox III, George No. US20030087817A1Albert
APPLICANT: Case, Casey Christopher
APPLICANT: Eisenberg, Stephen P.
APPLICANT: Davars, Eric Edward
APPLICANT: Syrtal, Sharon Kaye
APPLICANT: Sangamo Biosciences, Inc.
TITLE OF INVENTION: Regulation of Endogenous Gene Expression in Cells Using
FILE REFERENCE: 019496-002200US
CURRENT APPLICATION NUMBER: US/09/897,844
CURRENT FILING DATE: 2001-07-02
PRIOR APPLICATION NUMBER: 09/229,037
PRIOR FILING DATE: 1999-01-12
NUMBER OF SEQ ID NOS: 40
SOFTWARE: Patentln Ver. 2.0
SEQ ID NO 15
LENGTH: 99
TYPE: PRT
ORGANISM: Artificial Sequence
FEATURE:
OTHER INFORMATION: Description of Artificial Sequence: VEGF1 ZFP
OTHER INFORMATION: construct targeting upstream 9-base pair target
OTHER INFORMATION: site in VEGF promoter
US-09-897-844-15

Query Match 100.0%; Score 36; DB 11; Length 99;
Best Local Similarity 100.0%; Pred. No. 5;
Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Cy 1 RSDHLSR 7
Db 81 RSDHLSR 87

RESULT 375
US-09-911-261A-4
Sequence 4, Application US/09911261A
Patent No. US20030134350A1
GENERAL INFORMATION:
APPLICANT: Sera, Takashi
TITLE OF INVENTION: Zinc Finger Domain Recognition Code and Uses Thereof
FILE REFERENCE: 109845.135
CURRENT APPLICATION NUMBER: US/09/911,261A
CURRENT FILING DATE: 2001-07-23
PRIOR APPLICATION NUMBER: US 60/220,060
PRIOR FILING DATE: 2000-07-21
NUMBER OF SEQ ID NOS: 69

```

; SOFTWARE: Patentin version 3.0
; SEQ ID NO 4
; LENGTH: 99
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Zinc finger protein
US-09-911-261A-4

Query Match      100.0%; Score 36; DB 12; Length 99;
Best Local Similarity 100.0%; Pred. No. 5;
Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Cy      1 RSDHLSR 7
        |||||
        81 RSDHLSR 87

Db

RESULT 376
US-09-911-261A-5
; Sequence 5, Application US/09911261A
; Publication No. US20030134350A1
; GENERAL INFORMATION:
; APPLICANT: Sera, Takashi
; TITLE OF INVENTION: Zinc Finger Domain Recognition Code and Uses Thereof
; FILE REFERENCE: 109845.135
; CURRENT APPLICATION NUMBER: US/09/911,261A
; PRIOR FILING DATE: 2001-07-23
; PRIOR APPLICATION NUMBER: US 60/220,060
; NUMBER OF SEQ ID NOS: 69
; SOFTWARE: Patentin version 3.0
; SEQ ID NO 5
; LENGTH: 99
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Zinc finger protein
US-09-911-261A-5

Query Match      100.0%; Score 36; DB 12; Length 99;
Best Local Similarity 100.0%; Pred. No. 5;
Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Cy      1 RSDHLSR 7
        |||||
        84 RSDHLSR 90

Db

RESULT 377
US-09-911-261A-6
; Sequence 6, Application US/09911261A
; Publication No. US20030134350A1
; GENERAL INFORMATION:
; APPLICANT: Sera, Takashi
; TITLE OF INVENTION: Zinc Finger Domain Recognition Code and Uses Thereof
; FILE REFERENCE: 109845.135
; CURRENT APPLICATION NUMBER: US/09/911,261A
; PRIOR FILING DATE: 2001-07-23
; PRIOR APPLICATION NUMBER: US 60/220,060
; NUMBER OF SEQ ID NOS: 69
; SOFTWARE: Patentin version 3.0
; SEQ ID NO 6
; LENGTH: 99
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Zinc finger protein
US-09-911-261A-6

Query Match      100.0%; Score 36; DB 12; Length 99;
Best Local Similarity 100.0%; Pred. No. 5;
Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Cy      1 RSDHLSR 7
        |||||
        84 RSDHLSR 90

Db
```

```

Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Cy      1 RSDHLSR 7
        |||||
        84 RSDHLSR 90

Db

RESULT 378
US-09-911-261A-7
; Sequence 7, Application US/09911261A
; Publication No. US20030134350A1
; GENERAL INFORMATION:
; APPLICANT: Sera, Takashi
; TITLE OF INVENTION: Zinc Finger Domain Recognition Code and Uses Thereof
; FILE REFERENCE: 109845.135
; CURRENT APPLICATION NUMBER: US/09/911,261A
; PRIOR FILING DATE: 2001-07-23
; PRIOR APPLICATION NUMBER: US 60/220,060
; NUMBER OF SEQ ID NOS: 69
; SOFTWARE: Patentin version 3.0
; SEQ ID NO 7
; LENGTH: 99
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Zinc finger protein
US-09-911-261A-7

Query Match      100.0%; Score 36; DB 12; Length 99;
Best Local Similarity 100.0%; Pred. No. 5;
Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Cy      1 RSDHLSR 7
        |||||
        84 RSDHLSR 90

Db

RESULT 379
US-09-911-261A-8
; Sequence 8, Application US/09911261A
; Publication No. US20030134350A1
; GENERAL INFORMATION:
; APPLICANT: Sera, Takashi
; TITLE OF INVENTION: Zinc Finger Domain Recognition Code and Uses Thereof
; FILE REFERENCE: 109845.135
; CURRENT APPLICATION NUMBER: US/09/911,261A
; PRIOR FILING DATE: 2001-07-23
; PRIOR APPLICATION NUMBER: US 60/220,060
; NUMBER OF SEQ ID NOS: 69
; SOFTWARE: Patentin version 3.0
; SEQ ID NO 8
; LENGTH: 99
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Zinc finger protein
US-09-911-261A-8

Query Match      100.0%; Score 36; DB 12; Length 99;
Best Local Similarity 100.0%; Pred. No. 5;
Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Cy      1 RSDHLSR 7
        |||||
        84 RSDHLSR 90

Db

RESULT 380
US-09-911-261A-9
; Sequence 9, Application US/09911261A
; Publication No. US20030134350A1
```

```
/ GENERAL INFORMATION:
/ APPLICANT: Sera, Takashi
/ TITLE OF INVENTION: Zinc Finger Domain Recognition Code and Uses Thereof
/ FILE REFERENCE: 109845.135
/ CURRENT APPLICATION NUMBER: US/09/911,261A
/ PRIOR FILING DATE: 2001-07-23
/ PRIOR APPLICATION NUMBER: US 60/220,060
/ NUMBER OF SEQ ID NOS: 69
/ SOFTWARE: PatentIn version 3.0
/ SEQ ID NO 9
/ LENGTH: 99
/ TYPE: PRT
/ ORGANISM: Artificial Sequence
/ FEATURE:
/ OTHER INFORMATION: Zinc finger protein
US-09-911-261A-9

Query Match          100.0%; Score 36; DB 12; Length 99;
Best Local Similarity 100.0%; Pred. No. 5;
Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY      1 RSDHLR 7
        |||||
Db      84 RSDHLR 90

RESULT 381
US-09-911-261A-10
/ Sequence 10, Application US/0911261A
/ Publication No. US20030134350A1
/ GENERAL INFORMATION:
/ APPLICANT: Sera, Takashi
/ TITLE OF INVENTION: Zinc Finger Domain Recognition Code and Uses Thereof
/ FILE REFERENCE: 109845.135
/ CURRENT APPLICATION NUMBER: US/09/911,261A
/ PRIOR FILING DATE: 2001-07-23
/ PRIOR APPLICATION NUMBER: US 60/220,060
/ NUMBER OF SEQ ID NOS: 69
/ SOFTWARE: PatentIn version 3.0
/ SEQ ID NO 10
/ LENGTH: 99
/ TYPE: PRT
/ ORGANISM: Artificial Sequence
/ FEATURE:
/ OTHER INFORMATION: Zinc finger protein
US-09-911-261A-10

Query Match          100.0%; Score 36; DB 12; Length 99;
Best Local Similarity 100.0%; Pred. No. 5;
Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY      1 RSDHLR 7
        |||||
Db      84 RSDHLR 90

RESULT 382
US-10-245-415B-15
/ Sequence 15, Application US/10245415B
/ Publication No. US20030166141A1
/ GENERAL INFORMATION:
/ APPLICANT: Case, Casey Christopher
/ APPLICANT: Cox III, George N.
/ APPLICANT: Eisenberg, Stephen P.
/ APPLICANT: Liu, Qiang
/ APPLICANT: Rebar, Edward J.
/ TITLE OF INVENTION: REGULATION OF ENDOGENOUS GENE EXPRESSION IN CELLS
/ TITLE OF INVENTION: USING ZINC FINGER PROTEINS
/ FILE REFERENCE: 8325-0002.22 / S2-US7
/ CURRENT APPLICATION NUMBER: US/10/245,415B
/ CURRENT FILING DATE: 2002-09-16
```

```
/ NUMBER OF SEQ ID NOS: 67
/ SOFTWARE: PatentIn Ver. 2.0
/ SEQ ID NO 15
/ LENGTH: 99
/ TYPE: PRT
/ ORGANISM: Artificial Sequence
/ FEATURE:
/ OTHER INFORMATION: Description of Artificial Sequence: VEGF1 ZFP
/ OTHER INFORMATION: construct targeting upstream 9'-base pair target
US-10-245-415B-15

Query Match          100.0%; Score 36; DB 12; Length 99;
Best Local Similarity 100.0%; Pred. No. 5;
Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY      1 RSDHLR 7
        |||||
Db      81 RSDHLR 87

RESULT 383
US-10-412-105-3
/ Sequence 3, Application US/10412105
/ Publication No. US20030175790A1
/ GENERAL INFORMATION:
/ APPLICANT: Case, Casey
/ TITLE OF INVENTION: CELLS FOR DRUG DISCOVERY
/ FILE REFERENCE: 8325-0010
/ CURRENT APPLICATION NUMBER: US/10/412,105
/ PRIOR FILING DATE: 2003-04-10
/ PRIOR APPLICATION NUMBER: 09/779,233
/ PRIOR FILING DATE: 2001-02-08
/ NUMBER OF SEQ ID NOS: 45
/ SOFTWARE: PatentIn Ver. 2.0
/ SEQ ID NO 3
/ LENGTH: 99
/ TYPE: PRT
/ ORGANISM: Artificial Sequence
/ FEATURE:
/ OTHER INFORMATION: Description of Artificial Sequence: ZFP-VEGF1
US-10-412-105-3

Query Match          100.0%; Score 36; DB 12; Length 99;
Best Local Similarity 100.0%; Pred. No. 5;
Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY      1 RSDHLR 7
        |||||
Db      81 RSDHLR 87

RESULT 384
US-10-412-109-3
/ Sequence 3, Application US/10412109
/ Publication No. US20030180713A1
/ GENERAL INFORMATION:
/ APPLICANT: Case, Casey
/ TITLE OF INVENTION: CELLS FOR DRUG DISCOVERY
/ FILE REFERENCE: 8325-0010
/ CURRENT APPLICATION NUMBER: US/10/412,109
/ PRIOR FILING DATE: 2003-04-10
/ PRIOR APPLICATION NUMBER: US/09/779,233
/ PRIOR FILING DATE: 2001-02-08
/ NUMBER OF SEQ ID NOS: 45
/ SOFTWARE: PatentIn Ver. 2.0
/ SEQ ID NO 3
/ LENGTH: 99
/ TYPE: PRT
/ ORGANISM: Artificial Sequence
/ FEATURE:
/ OTHER INFORMATION: Description of Artificial Sequence: ZFP-VEGF1
US-10-412-109-3
```

Query Match 100.0%; Score 36; DB 12; Length 99;
 Best Local Similarity 100.0%; Pred. No. 5;
 Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

OY 1 RSDHLSR 7
 |||||
 DB 81 RSDHLSR 87

RESULT 385
 US-10-084-826-11
 ; Sequence 11, Application US/10084826
 ; Publication No. US20030049649A1
 ; GENERAL INFORMATION:
 ; APPLICANT: WOLFE, Alan P.
 ; TITLE OF INVENTION: TARGETED MODIFICATION OF CHROMATIN STRUCTURE
 ; FILE REFERENCE: 8325-0014 / S14-US1
 ; CURRENT APPLICATION NUMBER: US/10/084,826
 ; CURRENT FILING DATE: 2002-02-24
 ; PRIOR APPLICATION NUMBER: 09/844,508
 ; PRIOR FILING DATE: 2001-04-27/228,523
 ; PRIOR APPLICATION NUMBER: 60/228,523
 ; PRIOR FILING DATE: 2000-08-28
 ; NUMBER OF SEQ ID NOS: 49
 ; SOFTWARE: PatentIn Ver. 2.0
 ; SEQ ID NO 11
 ; LENGTH: 99
 ; TYPE: PRT
 ; ORGANISM: Artificial Sequence
 ; FEATURE:
 ; OTHER INFORMATION: Description of Artificial Sequence: Veg1 amino
 ; US-10-084-826-11

Query Match 100.0%; Score 36; DB 15; Length 99;
 Best Local Similarity 100.0%; Pred. No. 5;
 Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

OY 1 RSDHLSR 7
 |||||
 DB 81 RSDHLSR 87

RESULT 386
 US-10-057-408-4
 ; Sequence 4, Application US/10057408
 ; Publication No. US20030082561A1
 ; GENERAL INFORMATION:
 ; APPLICANT: Sera, Takashi
 ; TITLE OF INVENTION: Zinc Finger Domain Recognition Code and Uses Thereof
 ; FILE REFERENCE: 109845.135
 ; CURRENT APPLICATION NUMBER: US/10/057,408
 ; CURRENT FILING DATE: 2002-01-23
 ; PRIOR APPLICATION NUMBER: US 60/220,060
 ; PRIOR FILING DATE: 2000-07-21
 ; NUMBER OF SEQ ID NOS: 69
 ; SOFTWARE: PatentIn version 3.0
 ; SEQ ID NO 4
 ; LENGTH: 99
 ; TYPE: PRT
 ; ORGANISM: Artificial Sequence
 ; FEATURE:
 ; OTHER INFORMATION: Zinc finger protein
 ; US-10-057-408-4

Query Match 100.0%; Score 36; DB 15; Length 99;
 Best Local Similarity 100.0%; Pred. No. 5;
 Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

OY 1 RSDHLSR 7
 |||||

DB 81 RSDHLSR 87

RESULT 387
 US-10-057-408-5
 ; Sequence 5, Application US/10057408
 ; Publication No. US20030082561A1
 ; GENERAL INFORMATION:
 ; APPLICANT: Sera, Takashi
 ; TITLE OF INVENTION: Zinc Finger Domain Recognition Code and Uses Thereof
 ; FILE REFERENCE: 109845.135
 ; CURRENT APPLICATION NUMBER: US/10/057,408
 ; CURRENT FILING DATE: 2002-01-23
 ; PRIOR APPLICATION NUMBER: US 60/220,060
 ; PRIOR FILING DATE: 2000-07-21
 ; NUMBER OF SEQ ID NOS: 69
 ; SOFTWARE: PatentIn version 3.0
 ; SEQ ID NO 5
 ; LENGTH: 99
 ; TYPE: PRT
 ; ORGANISM: Artificial Sequence
 ; FEATURE:
 ; OTHER INFORMATION: Zinc finger protein
 ; US-10-057-408-5

Query Match 100.0%; Score 36; DB 15; Length 99;
 Best Local Similarity 100.0%; Pred. No. 5;
 Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

OY 1 RSDHLSR 7
 |||||
 DB 84 RSDHLSR 90

RESULT 388
 US-10-057-408-6
 ; Sequence 6, Application US/10057408
 ; Publication No. US20030082561A1
 ; GENERAL INFORMATION:
 ; APPLICANT: Sera, Takashi
 ; TITLE OF INVENTION: Zinc Finger Domain Recognition Code and Uses Thereof
 ; FILE REFERENCE: 109845.135
 ; CURRENT APPLICATION NUMBER: US/10/057,408
 ; CURRENT FILING DATE: 2002-01-23
 ; PRIOR APPLICATION NUMBER: US 60/220,060
 ; PRIOR FILING DATE: 2000-07-21
 ; NUMBER OF SEQ ID NOS: 69
 ; SOFTWARE: PatentIn version 3.0
 ; SEQ ID NO 6
 ; LENGTH: 99
 ; TYPE: PRT
 ; ORGANISM: Artificial Sequence
 ; FEATURE:
 ; OTHER INFORMATION: Zinc finger protein
 ; US-10-057-408-6

Query Match 100.0%; Score 36; DB 15; Length 99;
 Best Local Similarity 100.0%; Pred. No. 5;
 Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

OY 1 RSDHLSR 7
 |||||
 DB 84 RSDHLSR 90

RESULT 389
 US-10-057-408-7
 ; Sequence 7, Application US/10057408
 ; Publication No. US20030082561A1
 ; GENERAL INFORMATION:
 ; APPLICANT: Sera, Takashi
 ; TITLE OF INVENTION: Zinc Finger Domain Recognition Code and Uses Thereof
 ; FILE REFERENCE: 109845.135

```

1 CURRENT APPLICATION NUMBER: US 10/057,408
2 CURRENT FILING DATE: 2002-01-23
3 PRIOR APPLICATION NUMBER: US 60/220,060
4 PRIOR FILING DATE: 2000-07-21
5 NUMBER OF SEQ ID NOS: 69
6 SOFTWARE: PatentIn version 3.0
7 SEQ ID NO: 7
8 LENGTH: 99
9 TYPE: PRT
10 ORGANISM: Artificial Sequence
11 FEATURE:
12 OTHER INFORMATION: Zinc finger protein
13 US-10-057-408-7

```

Query Match	100.0%;	Score 36;	DB 15;	Length 99;
Best Local Similarity	100.0%;	Pred. No. 5;		
Matches	7;	Conservative	0;	Mismatches 0; Indels 0; Gaps 0;

QY	1	RSDHLSR	7
Db	84	RSDHLSR	90

```

RESULT 390
US-10-057-408-8
: Sequence 8, Application US/10057408
: Publication No. US2003082561A1
: GENERAL INFORMATION:
: APPLICANT: Seto, Takashi
: TITLE OF INVENTION: Zinc Finger Domain Recognition Code and Uses Thereof
: FILE REFERENCE: 109845.135
: CURRENT APPLICATION NUMBER: US/10/057,408
: CURRENT FILING DATE: 2002-01-23
: PRIOR APPLICATION NUMBER: US 60/220,060
: PRIOR FILING DATE: 2000-07-21
: NUMBER OF SEQ ID NOS: 69
: SOFTWARE: Patentin version 3.0
: SEQ ID NO 8
: LENGTH: 99
: TYPE: PRT
: ORGANISM: Artificial Sequence
: FEATURE:
: OTHER INFORMATION: Zinc finger protein
: US-10-057-408-8

```

Query Match	100.0%;	Score 36;	DB 15;	Length 99;
Best Local Similarity	100.0%;	Pred. No. 5;		
Matches	7;	Conservative	0;	Mismatches 0; Indels 0; Gaps 0;

QY	1	RSDHLSR	7
Db	84	RSDHLSR	90

```

RESULT 391
US-10-057-408-9
: Sequence 9, Application US/10057408
: Publication No. US20030082561A1
: GENERAL INFORMATION:
: APPLICANT: Sers, Takashi
: TITLE OF INVENTION: Zinc Finger Domain Recognition Code and Uses Thereof
: FILE REFERENCE: 109845.135
: CURRENT APPLICATION NUMBER: US/10/057,408
: PRIORITY FILING DATE: 2002-01-23
: PRIOR APPLICATION NUMBER: US 60/220,060
: NUMBER OF SEQ ID NOS: 69
: SOFTWARE: PatentIn version 3.0
: SEQ ID NO 9
: LENGTH: 99
: TYPE: PRT
: ORGANISM: Artificial Sequence
: FEATURE:
/

```

OTHER INFORMATION: Zinc finger protein
US-10-057-408-9

Query Match	100.0%;	Score 36;	DB 15;	Length 99;
Best Local Similarity	100.0%;	Pred. No. 5;		
Matches 7;	Conservative 0;	Mismatches 0;	Indels 0;	Gaps 0;

QY	1	RSD	LSR	7
Db	84	RSD	LSR	90

```

RESULT 392
US-10-057-408-10
: Sequence 10, Application US/10057408
: Publication No. US20030082561A1
: GENERAL INFORMATION:
: APPLICANT: Sera, Takashi
: TITLE OF INVENTION: Zinc Finger Domain Recognition Code and Uses Thereof
: FILE REFERENCE: 109845.135
: CURRENT APPLICATION NUMBER: US/10/057,408
: CURRENT FILING DATE: 2002-01-23
: PRIORITY APPLICATION NUMBER: US 60/220,060
: PRIOR FILING DATE: 2000-07-21
: NUMBER OF SEQ ID NOS: 69
: SOFTWARE: PatentIn version 3.0
: SEQ ID NO 10
: LENGTH: 99
: TYPE: PRT
: ORGANISM: Artificial Sequence
: FEATURE:
: OTHER INFORMATION: Zinc finger protein
US-10-057-408-10

```

Query Match	100.0%	Score 36;	DB 15;	Length 99;
Best Local Similarity	100.0%	Pred. No. 5;		
Matches 7;	Conservative 0;	Mismatches 0;	Indels 0;	Gaps 0;

QY	1	RSD	LSR	7
Db	84	RSD	LSR	90

RESULT 393
 US-09-779-233-18
 ; Sequence 18, Application US/09779233
 ; Patent No. US20020045158A1
 ; GENERAL INFORMATION:
 ; APPLICANT: Case, Casey
 ; TITLE OF INVENTION: CELLS FOR DRUG DISCOVERY
 ; FILE REFERENCE: 8325-0010
 ; CURRENT APPLICATION NUMBER: US/09/779,233
 ; CURRENT FILING DATE: 2001-02-08
 ; NUMBER OF SEQ. ID NOS. 45
 ; SOFTWARE: PatentIn Ver. 2.0
 ; SEQ. ID NO 18
 ; LENGTH 196
 ; TYPE: PRT
 ; ORGANISM: Artificial Sequence
 ; FEATURE:
 ; OTHER INFORMATION: Description of Artificial Sequence: ZFP-VEGF 3a/1
 US-09-779-233-18

```
Query Match.      100.0%; Score 36; DB 9; Length 196;
Best Local Similarity 100.0%; Pred. No. 10;
Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
```

QY	1 RSDHLSR 7
Db	178 RSDHLSR 184

RESULT 394

US-09-844-508-29
; Sequence 29, Application US/09844508
; Patent No. US20020115215A1
; GENERAL INFORMATION:
; APPLICANT: WOLFFE, Alan P.
; APPLICANT: COLLINGWOOD, Trevor
; TITLE OF INVENTION: TARGETED MODIFICATION OF CHROMATIN STRUCTURE
; FILE REFERENCE: 8325-0014 / S14-US1
; CURRENT APPLICATION NUMBER: US/09/844,508
; CURRENT FILING DATE: 2001-04-27
; PRIOR APPLICATION NUMBER: 60/200,590
; PRIOR FILING DATE: 2000-04-28
; PRIOR APPLICATION NUMBER: 60/228,523
; PRIOR FILING DATE: 2000-08-28
; NUMBER OF SEQ ID NOS: 49
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 29
; LENGTH: 196
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: Veg3a/1 amino
US-09-844-508-29

Query Match 100.0%; Score 36; DB 10; Length 196;
Best Local Similarity 100.0%; Pred. No. 10;
Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 RSDHLSR 7
Db 178 RSDHLSR 184

RESULT 395
US-09-942-087A-30
; Sequence 30, Application US/09942087A
; Patent No. US20020180940A1
; GENERAL INFORMATION:
; APPLICANT: Case, Casey Christopher
; APPLICANT: Wolffe, Alan
; APPLICANT: Urmov, Fyodor
; APPLICANT: Lai, Albert
; APPLICANT: Snowden, Andrew
; APPLICANT: Tan, Siyuan
; APPLICANT: Gregory, Philip
; TITLE OF INVENTION: MODULATION OF ENDOGENOUS GENE EXPRESSION IN CELLS
; FILE REFERENCE: 8325-0002.21 / S2-US5
; CURRENT APPLICATION NUMBER: US/09/942,087A
; CURRENT FILING DATE: 2001-08-28
; PRIOR APPLICATION NUMBER: 09/229,037
; PRIOR FILING DATE: 1999-01-12
; NUMBER OF SEQ ID NOS: 43
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 30
; LENGTH: 196
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: designed
; OTHER INFORMATION: 6-finger ZFP VEGF3a/1 from Kpni to BamHI
US-09-942-087A-30

Query Match 100.0%; Score 36; DB 10; Length 196;
Best Local Similarity 100.0%; Pred. No. 10;
Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 RSDHLSR 7
Db 178 RSDHLSR 184

RESULT 396

US-09-897-844-30
; Sequence 30, Application US/09897844
; Publication No. US20030087817A1
; GENERAL INFORMATION:
; APPLICANT: Cox III, George No. US20030087817A1Albert
; APPLICANT: Case, Casey Christopher
; APPLICANT: Eisenberg, Stephen P.
; APPLICANT: Jarvis, Eric Edward
; APPLICANT: Sparr, Sharon Kaye
; APPLICANT: Sangano Biosciences, Inc.
; TITLE OF INVENTION: Regulation of Endogenous Gene Expression in Cells Using
; FILE REFERENCE: 019496-002200US
; CURRENT APPLICATION NUMBER: US/09/897,844
; CURRENT FILING DATE: 2001-07-02
; PRIOR APPLICATION NUMBER: 09/229,037
; PRIOR FILING DATE: 1999-01-12
; NUMBER OF SEQ ID NOS: 40
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 30
; LENGTH: 196
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: designed
; OTHER INFORMATION: 6-finger ZFP VEGF3a/1 from Kpni to BamHI
US-09-897-844-30

Query Match 100.0%; Score 36; DB 11; Length 196;
Best Local Similarity 100.0%; Pred. No. 10;
Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 RSDHLSR 7
Db 178 RSDHLSR 184

RESULT 397
US-09-911-261A-3
; Sequence 3, Application US/09911261A
; Publication No. US20030134350A1
; GENERAL INFORMATION:
; APPLICANT: Sera, Takashi
; TITLE OF INVENTION: Zinc Finger Domain Recognition Code and Uses Thereof
; FILE REFERENCE: 109845.135
; CURRENT FILING DATE: 2001-07-23
; PRIOR APPLICATION NUMBER: US 60/220,060
; PRIOR FILING DATE: 2000-07-21
; NUMBER OF SEQ ID NOS: 69
; SOFTWARE: PatentIn version 3.0
; SEQ ID NO 3
; LENGTH: 196
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Zinc finger protein
US-09-911-261A-3

Query Match 100.0%; Score 36; DB 12; Length 196;
Best Local Similarity 100.0%; Pred. No. 10;
Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 RSDHLSR 7
Db 178 RSDHLSR 184

RESULT 398
US-10-245-415B-30
; Sequence 30, Application US/10245415B
; Publication No. US20030166141A1
; GENERAL INFORMATION:

APPLICANT: Case, Casey Christopher
APPLICANT: Cox III, George N.
APPLICANT: Eisenberg, Stephen P.
APPLICANT: Liu, Qiang
APPLICANT: Rebar, Edward J.
TITLE OF INVENTION: REGULATION OF ENDOGENOUS GENE EXPRESSION IN CELLS
TITLE OF INVENTION: USING ZINC FINGER PROTEINS
FILE REFERENCE: 8325-0002.22 / S2-us7
CURRENT APPLICATION NUMBER: 2002-09-16
NUMBER OF SEQ ID NOS: 67
SOFTWARE: Patentin Ver. 2.0
SEQ ID NO 30
LENGTH: 196
TYPE: PRT
ORGANISM: Artificial Sequence
FEATURE:
OTHER INFORMATION: Description of Artificial Sequence: designed
OTHER INFORMATION: 6-finger ZFP VEGF3a/1 from Kpni to BamHI
US-10-245-415B-30

Query Match 100.0%; Score 36; DB 12; Length 196;
Best Local Similarity 100.0%; Pred. No. 10;
Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 RSDHLSR 7
Db 178 RSDHLSR 184

RESULT 399
US-10-412-105-18
Sequence 18, Application US/10412105
Publication No. US20030175790A1
GENERAL INFORMATION:
APPLICANT: Case, Casey
TITLE OF INVENTION: CELLS FOR DRUG DISCOVERY
FILE REFERENCE: 8325-0010
CURRENT APPLICATION NUMBER: US/10/412,105
CURRENT FILING DATE: 2003-04-10
PRIORITY FILING DATE: 2001-02-08
PRIORITY FILING DATE: 2001-02-08
NUMBER OF SEQ ID NOS: 45
SOFTWARE: Patentin Ver. 2.0
SEQ ID NO 18
LENGTH: 196
TYPE: PRT
ORGANISM: Artificial Sequence
FEATURE:
OTHER INFORMATION: Description of Artificial Sequence: ZFP-VEGF 3a/1
US-10-412-105-18

Query Match 100.0%; Score 36; DB 12; Length 196;
Best Local Similarity 100.0%; Pred. No. 10;
Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 RSDHLSR 7
Db 178 RSDHLSR 184

RESULT 400
US-10-412-109-18
Sequence 18, Application US/10412109
Publication No. US20030180713A1
GENERAL INFORMATION:
APPLICANT: Case, Casey
TITLE OF INVENTION: CELLS FOR DRUG DISCOVERY
FILE REFERENCE: 8325-0010
CURRENT APPLICATION NUMBER: US/10/412,109
CURRENT FILING DATE: 2003-04-10
PRIORITY FILING DATE: 2001-02-08
PRIORITY FILING DATE: 2001-02-08

NUMBER OF SEQ ID NOS: 45
SOFTWARE: Patentin Ver. 2.0
SEQ ID NO 18
LENGTH: 196
TYPE: PRT
ORGANISM: Artificial Sequence
FEATURE:
OTHER INFORMATION: Description of Artificial Sequence: ZFP-VEGF 3a/1
US-10-412-109-18

Query Match 100.0%; Score 36; DB 12; Length 196;
Best Local Similarity 100.0%; Pred. No. 10;
Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 RSDHLSR 7
Db 178 RSDHLSR 184

RESULT 401
US-10-084-826-29
Sequence 29, Application US/10084826
Publication No. US20030043649A1
GENERAL INFORMATION:
APPLICANT: WOLFE, Alan P.
TITLE OF INVENTION: TARGETED MODIFICATION OF CHROMATIN STRUCTURE
FILE REFERENCE: 8325-0014 / S14-US1
CURRENT APPLICATION NUMBER: US/10/084,826
CURRENT FILING DATE: 2002-02-24
PRIORITY FILING DATE: 2001-04-27/228,523
PRIORITY FILING DATE: 2000-08-28
NUMBER OF SEQ ID NOS: 49
SOFTWARE: Patentin Ver. 2.0
SEQ ID NO 29
LENGTH: 196
TYPE: PRT
ORGANISM: Artificial Sequence
FEATURE:
OTHER INFORMATION: Description of Artificial Sequence: Veg3a/1 amino
US-10-084-826-29

Query Match 100.0%; Score 36; DB 15; Length 196;
Best Local Similarity 100.0%; Pred. No. 10;
Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 RSDHLSR 7
Db 178 RSDHLSR 184

RESULT 402
US-10-057-408-3
Sequence 3, Application US/10057408
Publication No. US2003008261A1
GENERAL INFORMATION:
APPLICANT: Sera, Takashi
TITLE OF INVENTION: Zinc Finger Domain Recognition Code and Uses Thereof
FILE REFERENCE: 109845.135
CURRENT APPLICATION NUMBER: US/10/057,408
CURRENT FILING DATE: 2002-01-23
PRIORITY FILING DATE: 2000-07-21
PRIORITY FILING DATE: 2000-07-21
NUMBER OF SEQ ID NOS: 69
SOFTWARE: Patentin version 3.0
SEQ ID NO 3
LENGTH: 196
TYPE: PRT
ORGANISM: Artificial Sequence
FEATURE:

; OTHER INFORMATION: Zinc finger protein
US-10-057-408-3

Query Match 100.0%; Score 36; DB 15; Length 196;
Best Local Similarity 100.0%; Pred. No. 10;
Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 RSDHLSR 7
| | | | |
DB 178 RSDHLSR 184

Search completed: February 23, 2004, 11:47:31
Job time : 29 secs

GenCore version 5.1.6
Copyright (c) 1993 - 2004 CompuGen Ltd.

OM protein - protein search, using sw model

Run on: February 23, 2004, 11:37:34 ; Search time 11.6667 Seconds
(without alignments)

57.701 Million cell updates/sec

Title: US-09-989-994-229
Perfect score: 36
Sequence: 1 RSDHLR 7

Scoring table: BIOSUM62
Gapop 10.0, Gapext 0.5

Searched: 283308 seqs, 9616682 residues

Total number of hits satisfying chosen parameters: 1

Minimum DB seq length: 0
Maximum DB seq length: 2000000000

Post-processing: Minimum Match 100%
Maximum Match 100%
Listing first 2000 summaries

Database : PIR_76:*
1: pir1:*
2: pir2:*
3: pir3:*
4: pir4:*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	DB ID	Description
1	36	100.0	1400	2 T22644	hypothetical prote

ALIGNMENTS

RESULT 1
T22644
hypothetical protein F54D1.5 - Caenorhabditis elegans
C:Species: Caenorhabditis elegans
C:Date: 15-Oct-1999 #sequence_revision 15-Oct-1999 #text_change 15-Oct-1999
C:Accession: T22644
R:Renard, N.
Submitted to the EMBL Data Library, July 1996
A:Reference number: Z19592
A:Accession: T22644
A>Status: preliminary; translated from GB/EMBL/DBJ
A:Molecule type: DNA
A:Residues: 1-1400 <WIL>
A:Cross-references: EMBL:Z77132; PIDN:CA800861.1; GSPDB:GN00022; CESP:F54D1.5
C:Genetics:
A:Gene: CESP:F54D1.5
A:Map position: 4
A:Introns: 21/2; 51/2; 205/2; 276/3; 364/2; 394/2; 466/3; 507/3; 536/3; 599/3; 672/2; 69

Query Match 100.0%; Score 36; DB 2; Length 1400;
Best Local Similarity 100.0%; Pred. No. 9.8;
Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Cy 1 RSDHLR 7
Db 51 RSDHLR 57

Search completed: February 23, 2004, 11:45:05
Job time : 11.6667 secs

Gencore version 5.1.6
Copyright (c) 1993 - 2004 Compugen Ltd.

OM protein - protein search, using sw model

Run on: February 23, 2004, 11:35:04 ; Search time 7.66667 Seconds
(without alignments)
42.937 Million cell updates/sec

Title: US-09-989-994-229
Perfect score: 36
Sequence: 1 RSDHLR 7

Scoring table: BIOSUM62
Gapop 10.0 , Gapext 0.5

Searched: 127863 seqs, 47026705 residues

Total number of hits satisfying chosen parameters: 0

Minimum DB seq length: 0
Maximum DB seq length: 2000000000

Post-processing: Minimum Match 100%
Maximum Match 100%
Listing first 2000 summaries

Database : SwissProt_41.*

Pred. No. is the number of results predicted by chance to have a
score greater than or equal to the score of the result being printed,
and is derived by analysis of the total score distribution.

SUMMARIES

Result	Query			
No.	Score	Match	Length	ID
				Description

No matches found

Search completed: February 23, 2004, 11:42:41
Job time : 7.66667 secs

GenCore version 5.1.6
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OM protein - protein search, using sw model

Run on: February 23, 2004, 11:36:14 ; Search time 27.6667 Seconds
(without alignments)
65.290 Million cell updates/sec

Title: US-09-989-994-229

Perfect score: 36

Sequence: 1 RSDLSR 7

Scoring table:

BLOSUM62
Gapop 10.0 , Gapext 0.5

Searched: 830525 seqs, 258052604 residues

Total number of hits satisfying chosen parameters: 1

Minimum DB seq length: 0

Maximum DB seq length: 2000000000

Post-processing: Minimum Match 100%

Maximum Match 100%

Listing first 2000 summaries

Database :

SPTREMBL_23:*
1: sp_archaea:*
2: sp_bacteria:*
3: sp_fungi:*
4: sp_human:*
5: sp_invertebrate:*
6: sp_mammal:*
7: sp_mmc:*
8: sp_organelle:*
9: sp_phage:*
10: sp_plant:*
11: sp_rodent:*
12: sp_virus:*
13: sp_vertebrate:*
14: sp_unclassified:*
15: sp_rvirs:*
16: sp_bacteriap:*
17: sp_archaeap:*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	ID	Description
1	36	100.0	1363	5 Q20766	caenorhabdi

ALIGNMENTS

RESULT 1
Q20766
ID Q20766 PRELIMINARY; PRT; 1363 AA.
AC Q20766;
DT 01-JAN-1998 (TREMBLrel. 05, Created)
DT 01-DEC-2001 (TREMBLrel. 19, Last sequence update)
DT 01-MAR-2003 (TREMBLrel. 23, Last annotation update)
DE F54D1.5 protein.
GN F54D1.5
OS Caenorhabditis elegans.

OC Eukaryota; Metazoa; Nematozoa; Chromadorea; Rhabditida; Rhabditidae;
OC Rhabditidae; Pelodierinae; Caenorhabditis.
OK NCBI_TaxID=6239;
RN [1]
RP SEQUENCE FROM N.A.
RL Submitted (JUL-1996) to the EMBL/GenBank/DBJ databases.
RN [2]
RP SEQUENCE FROM N.A.
RX MEDLINE=99069613; PubMed=9851916;
RA none;
RT "Genome sequence of the nematode C.elegans: A platform for
RT investigating biology";
RL Science 282.2012-2018(1998).
DR EMBL; 277132; CAB00867.2; -.
DR WormPep; F54D1.5; CE28563.
DR InterPro; IPR002111; Cat_channel_Tryp.
DR InterPro; IPR005821; Ion_trans.
DR Pfam; PF00520; Ion_trans; 1.
DR Ionic channel; Transmembrane.
SQ SEQUENCE 1363 AA; 156770 MW; DFE8960976A4E0B9 CRC64;

Query Match 100.0%; Score 36; DB 5; Length 1363;
Best Local Similarity 100.0%; Pred No. 44;
Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
QY 1 RSDLSR 7
DB 14 RSDLSR 20

Search completed: February 23, 2004, 11:44:17
Job time : 27.6667 secs

GenCore version 5.1.6
Copyright (c) 1993 - 2004 Compugen Ltd.

OM protein - protein search, using sw model

Run on: February 23, 2004, 11:40:23 ; Search time 12.6667 Seconds
(without alignments)
23.382 Million cell updates/sec

Title: US-09-989-994-229

Perfect score: 36
Sequence: 1 RSDHLR 7

Scoring table: BIOSUM62
Gapop 10.0, Gapext 0.5

Searched: 328717 seqs, 42310858 residues

Total number of hits satisfying chosen parameters: 3

Minimum DB seq length: 0

Maximum DB seq length: 2000000000

Post-processing: Minimum Match 100%
Maximum Match 100%

Listing first 2000 summaries

Database: Issued Patents AA:*

1: /cgn2_6/ptodata/1/1aa/5A.COMB.pep:*
2: /cgn2_6/ptodata/1/1aa/5B.COMB.pep:*
3: /cgn2_6/ptodata/1/1aa/6A.COMB.pep:*
4: /cgn2_6/ptodata/1/1aa/6B.COMB.pep:*
5: /cgn2_6/ptodata/1/1aa/PTUS.COMB.pep:*
6: /cgn2_6/ptodata/1/1aa/backfile1.pep:*

Pred. No. is the number of results predicted by chance to have a
score greater than or equal to the score of the result being printed,
and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	ID	Description
1	36	100.0	7	US-09-731-558-14	Sequence 14, Appl
2	36	100.0	99	US-09-229-037-15	Sequence 15, Appl
3	36	100.0	196	US-09-229-037-30	Sequence 30, Appl

ALIGNMENTS

RESULT 1
US-09-731-558-14
; Sequence 14, Application US/09731558
; Patent No. 6503717
; GENERAL INFORMATION:
; APPLICANT: Case, Casey Christopher
; APPLICANT: Liu, Qiang
; APPLICANT: Rebar, Edward J.
; APPLICANT: Sangamo Biosciences, Inc.
; TITLE OF INVENTION: Methods of Using Randomized Libraries of Zinc Finger
; FILE REFERENCE: 019496-003210US
; CURRENT APPLICATION NUMBER: US/09/731,558
; CURRENT FILING DATE: 2000-12-06
; PRIOR APPLICATION NUMBER: US 09/456,100
; PRIOR FILING DATE: 1999-12-06
; NUMBER OF SEQ ID NOS: 24
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 14

LENGTH: 7
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence:SBSS
US-09-731-558-14

Query Match 100.0%; Score 36; DB 4; Length 7;
Best local similarity 100.0%; Pred. No. 2.5e+05;
Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 RSDHLR 7
Db 1 RSDHLR 7

RESULT 2

US-09-229-037-15

; Sequence 15, Application US/09229037A

; Patent No. 6534261

; GENERAL INFORMATION:

; APPLICANT: Cox III, George No. 6534261bert

; APPLICANT: Case, Casey Christopher

; APPLICANT: Eisenberg, Stephen P.

; APPLICANT: Jarvis, Eric Edward

; APPLICANT: Spratt, Sharon Kaye

; APPLICANT: Sangamo Biosciences, Inc.

; TITLE OF INVENTION: Regulation of Endogenous Gene Expression in Cells Using

; FILE REFERENCE: 019496-002200US

; CURRENT APPLICATION NUMBER: US/09/229,037A

; CURRENT FILING DATE: 1999-01-12

; NUMBER OF SEQ ID NOS: 40

; SOFTWARE: PatentIn Ver. 2.0

; SEQ ID NO 15

; LENGTH: 99

; TYPE: PRT

; ORGANISM: Artificial Sequence

; FEATURE:

; OTHER INFORMATION: Description of Artificial Sequence:VEGF ZFP

; OTHER INFORMATION: construct targeting upstream 9-base pair target

; OTHER INFORMATION: site in VEGF promoter

US-09-229-037-15

Query Match 100.0%; Score 36; DB 4; Length 99;
Best local similarity 100.0%; Pred. No. 1.5; 0; Indels 0; Gaps 0;

Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 RSDHLR 7
Db 81 RSDHLR 87

RESULT 3

US-09-229-037-30

; Sequence 30, Application US/09229037A

; Patent No. 6534261

; GENERAL INFORMATION:

; APPLICANT: Cox III, George No. 6534261bert

; APPLICANT: Case, Casey Christopher

; APPLICANT: Eisenberg, Stephen P.

; APPLICANT: Jarvis, Eric Edward

; APPLICANT: Spratt, Sharon Kaye

; APPLICANT: Sangamo Biosciences, Inc.

; TITLE OF INVENTION: Regulation of Endogenous Gene Expression in Cells Using

; FILE REFERENCE: 019496-002200US

; CURRENT APPLICATION NUMBER: US/09/229,037A

; CURRENT FILING DATE: 1999-01-12

; NUMBER OF SEQ ID NOS: 40

; SOFTWARE: PatentIn Ver. 2.0

; SEQ ID NO 30

```

; LENGTH: 196
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence:designed
; OTHER INFORMATION: 6-finger ZFP VEGP3a/1 from Xpni to BamHI
US-09-229-037-30

```

```

Query Match      100.0%; Score 36; DB 4; Length 196;
Best Local Similarity 100.0%; Pred.No. 3.2;
Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

```

```

QY      1 RSDHLSR 7
Db      178 RSDHLSR 184

```

```

Search completed: February 23, 2004, 11:45:56
Job time : 12.6667 secs

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GenCore version 5.1.6
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OM protein - protein search, using sw model

Run on: February 23, 2004, 11:27:43 ; Search time 32.6667 Seconds
(without alignments)
102.039 Million cell updates/sec

Title: 09989994F3F2F1
Perfect score: 107
Sequence: 1 resdlnsrreghlstrdrnlttr 21

Scoring table: BLOSUM62
Gapop 10.0 , Gapext 0.1

Searched: 1107863 segs, 158726573 residues
Total number of hits satisfying chosen parameters: 1107863

Minimum DB seq length: 0
Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%
Maximum Match 100%
Listing first 100 summaries

Database :
1: A.Geneseq.19Jun03.*
2: /SIDSL/gcgdata/geneseq/geneseq-emb1/AA1980.DAT.*
3: /SIDSL/gcgdata/geneseq/geneseq-emb1/AA1981.DAT.*
4: /SIDSL/gcgdata/geneseq/geneseq-emb1/AA1982.DAT.*
5: /SIDSL/gcgdata/geneseq/geneseq-emb1/AA1983.DAT.*
6: /SIDSL/gcgdata/geneseq/geneseq-emb1/AA1984.DAT.*
7: /SIDSL/gcgdata/geneseq/geneseq-emb1/AA1985.DAT.*
8: /SIDSL/gcgdata/geneseq/geneseq-emb1/AA1986.DAT.*
9: /SIDSL/gcgdata/geneseq/geneseq-emb1/AA1987.DAT.*
10: /SIDSL/gcgdata/geneseq/geneseq-emb1/AA1988.DAT.*
11: /SIDSL/gcgdata/geneseq/geneseq-emb1/AA1989.DAT.*
12: /SIDSL/gcgdata/geneseq/geneseq-emb1/AA1990.DAT.*
13: /SIDSL/gcgdata/geneseq/geneseq-emb1/AA1991.DAT.*
14: /SIDSL/gcgdata/geneseq/geneseq-emb1/AA1992.DAT.*
15: /SIDSL/gcgdata/geneseq/geneseq-emb1/AA1993.DAT.*
16: /SIDSL/gcgdata/geneseq/geneseq-emb1/AA1994.DAT.*
17: /SIDSL/gcgdata/geneseq/geneseq-emb1/AA1995.DAT.*
18: /SIDSL/gcgdata/geneseq/geneseq-emb1/AA1996.DAT.*
19: /SIDSL/gcgdata/geneseq/geneseq-emb1/AA1997.DAT.*
20: /SIDSL/gcgdata/geneseq/geneseq-emb1/AA1998.DAT.*
21: /SIDSL/gcgdata/geneseq/geneseq-emb1/AA1999.DAT.*
22: /SIDSL/gcgdata/geneseq/geneseq-emb1/AA2000.DAT.*
23: /SIDSL/gcgdata/geneseq/geneseq-emb1/AA2001.DAT.*
24: /SIDSL/gcgdata/geneseq/geneseq-emb1/AA2002.DAT.*
25: /SIDSL/gcgdata/geneseq/geneseq-emb1/AA2003.DAT.*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	DB ID	Description
1	54	50.5	21	23	ABR05107
2	54	50.5	1387	21	AAV95441
3	50	46.7	21	20	AAV33370
4	47.7	44.6	721	21	AAV97410
5	47.6	44.5	179	22	AAH85416
6	47.6	44.5	386	22	AAH93303
7	47.6	44.5	725	22	AAH95116
8	47.4	44.3	181	22	AAH85419
9	47.4	44.3	181	22	AAH85420

10	47.2	44.1	183	22	AAH85417	Amino acid sequenc
11	46.8	43.7	171	21	AAH23358	Arabidopsis thalia
12	46.8	43.7	196	21	AAH23357	Arabidopsis thalia
13	46.8	43.7	199	21	AAH23356	Arabidopsis thalia
14	46.8	43.7	229	21	AAH23824	Arabidopsis thalia
15	46.8	43.7	229	21	AAH51268	Arabidopsis thalia
16	46.8	43.7	229	21	AAH51272	Arabidopsis thalia
17	46.8	43.7	254	21	AAH28823	Arabidopsis thalia
18	46.8	43.7	254	21	AAH51267	Arabidopsis thalia
19	46.8	43.7	254	21	AAH51271	Arabidopsis thalia
20	46.8	43.7	257	21	AAH28822	Arabidopsis thalia
21	46.8	43.7	257	21	AAH51266	Arabidopsis thalia
22	46.8	43.7	257	21	AAH51270	Arabidopsis thalia
23	46.6	43.6	189	22	AAH85418	Amino acid sequenc
24	46	43.0	111	24	AAH51187	Propionibacterium
25	45.7	42.7	338	21	AAH01279	S. pneumoniae type
26	45.7	42.7	338	21	AAH19108	Polypeptide isolat
27	45.1	42.1	574	22	ABG4914	Novel human diagno
28	44.9	42.0	67	22	ABH70603	Drosophila melanog
29	44	41.1	21	23	ABH05106	HIV-A, zinc finger
30	44	41.1	693	23	ABH2247	Herbicidally activ
31	44	41.1	695	23	ABH30651	Chlamydia pneumoni
32	44	41.1	703	20	AAH35072	Chlamydia pneumoni
33	43.8	40.9	19938	24	ABH76680	Streptomyces virid
34	43.7	40.8	658	24	ABH72564	TAT dMT-FBI-1 fusi
35	43.7	40.8	659	24	ABH72560	FBI-1-Fat dMT fusi
36	43.6	40.7	1466	23	AAH14709	Mouse beta integr
37	43.5	40.7	231	23	ABH54115	Lactococcus lactis
38	43.4	40.6	108	21	AAH58104	Arabidopsis thalia
39	43.4	40.6	138	21	AAH58103	Arabidopsis thalia
40	43	40.2	21	23	ABH05110	HIV-E zinc finger
41	43	40.2	52	22	AAH46550	Propionibacterium
42	43	40.2	211	23	ABH64841	Human albumin fusi
43	43	40.2	211	23	AAH96189	Human secreted pro
44	43	40.2	284	22	AAH79724	Human protein SEQ
45	43	40.2	284	22	AAH79725	Human protein SEQ
46	43	40.2	294	23	ABH41663	Human ovarian anti
47	43	40.2	311	22	AAH78741	Human protein SEQ
48	43	40.2	325	19	AAH59645	Amino acid sequenc
49	43	40.2	325	19	AAH2619	Human protein sequ
50	43	40.2	325	22	AAH90692	Human AS164.1 prot
51	43	40.2	370	22	AAH78740	Human protein SEQ
52	43	40.2	371	23	AAH15264	Human RNA metaboli
53	43	40.2	453	22	ABH65852	Drosophila melanog
54	43	40.2	4630	18	AAH19629	Drosophila melanog
55	43	40.2	4630	18	AAH77177	IRS-1 protein. Ra
56	43	40.2	1155	13	AAH28047	Tyactone synthase
57	43	40.2	1841	18	AAH22605	Drosophila melanog
58	43	40.2	2429	22	ABH62451	Streptomyces venez
59	43	40.2	4630	18	AAH19629	S. venezuelae vep
60	43	40.2	4630	18	AAH77177	Novel human enzy
61	42.8	40.0	250	22	AAH23199	Human drug metabo
62	42.8	40.0	276	22	AAH85777	Human polypeptide
63	42.8	40.0	276	22	AAH8795	Human polypeptide
64	42.8	40.0	298	22	AAH40581	Human polypeptide
65	42.7	39.9	33	23	ABH29489	Streptococcus poly
66	42.7	39.9	458	21	AAH97425	Wheat 1-deoxy-D-xy
67	42.7	39.9	720	21	AAH97422	Rice 1-deoxy-D-xy
68	42.6	39.8	89	17	AAH89200	Zinc finger DNA bi
69	42.6	39.6	181	22	AAH85415	Amino acid sequenc
70	42.3	39.5	357	22	AAH63534	Human polypeptide
71	42.3	39.5	492	21	AAH30128	Arabidopsis thalia
72	42.3	39.5	514	21	AAH30127	Arabidopsis thalia
73	42	39.3	110	22	AAH62107	HIV-A zinc finger
74	42	39.3	175	21	AAH51272	Propionibacterium
75	42	39.3	204	22	AAH51267	Eucalyptus grandis
76	42	39.3	204	22	AAH51267	Novel human diagno
77	42	39.3	209	16	AAH80945	Receptor-associate
78	42	39.3	215	14	AAH1759	Bacillus subtilis
79	42	39.3	215	14	AAH43315	Bacillus subtilis
80	42	39.3	229	22	AAH52398	Propionibacterium
81	42	39.3	229	22	AAH50543	Drosophila melanog
82	42	39.3	426	22	AAH42357	Propionibacterium

83 42 39.3 568 24 ABG74119 Human calcium chan
 84 42 39.3 605 16 AAR72608 Human neuronal cal
 85 42 39.3 605 21 AAB10594 Human calcium chan
 86 42 39.3 605 23 AAR24806 Human calcium chan
 87 42 39.3 612 16 AAR72609 Human neuronal cal
 88 42 39.3 612 21 AAB10595 Human calcium chan
 89 42 39.3 612 23 AAR24807 Human calcium chan
 90 42 39.3 660 16 AAR72613 Human neuronal cal
 91 42 39.3 660 21 AAB10583 Human calcium chan
 92 42 39.3 660 23 AAR24796 Human calcium chan
 93 42 39.3 691 23 AAB32127 Herbicidally activ
 94 42 39.3 1857 22 AAB64454 Drosophila melano
 95 41.9 39.2 184 22 AAB60004 Zinc finger protei
 96 41.8 39.1 372 20 AAB8301 E. coli O111 anti
 97 41.8 39.1 391 19 AAB30680 Glycero1-3-phospha
 98 41.8 39.1 391 19 AAB60255 Klebsiella pneumo
 99 41.8 39.1 391 19 AAB60255 Cytosolic glycerol
 100 41.8 39.1 391 20 AAY26166 Cytosolic glycerol

ALIGNMENTS

RESULT 1
 ABB05107

ID ABB05107 standard; Peptide; 21 AA.

AC ABB05107;

DT 27-MAR-2002 (first entry)

DE HIV-B zinc finger amino acid sequence.

KW Human immunodeficiency virus; HIV; Herpesvirus; HSV; zinc finger;
 nucleic acid binding protein; viral; promoter; infection; virucide;
 anti-HIV.

OS Human immunodeficiency virus type 1.

XX Synthetic.

PN WO200185780-A2.

PD 15-NOV-2001.

PF 08-MAY-2001; 2001WO-GB02017.

PR 08-MAY-2000; 2000GB-0011068.

PR 30-MAY-2000; 2000GB-0013106.

PR 02-OCT-2000; 2000WO-GB03765.

PR 19-JAN-2001; 2001GB-0001446.

PA (GENE-) GENDAQ LTD.

PI Choc Y, Demaison C, Moore M, Papworth MA, Reynold L, Ullman CG;

PI Italen M;

DR WPI; 2002-139420/18.

PT Novel viral nucleic acid binding polypeptide useful for binding viral

PT promoter sequences, and modulating expression of gene linked to viral

PT promoter sequence, and for treating human immunodeficiency virus

PT infection -

PS Example 3; Page 73; 141pp; English.

XX The present invention describes a polypeptide (I) capable of binding to
 CC a nucleic acid comprising a viral nucleotide sequence. Also described
 CC are: (1) a composition (II) comprising (I) and a excipient, diluent or
 CC carrier; (2) a nucleic acid molecule (III) encoding (I); (3) an
 CC expression vector (IV) comprising (III); (4) a particle (V) harbouring
 CC (I), (III) or (IV); and (5) modulating transcription by targeting nucleic
 CC acid sequences that overlap with transcription factor binding sites by
 CC the use of engineered zinc finger molecules. (I) has virucide and

CC anti-HIV activities. (I) is useful for modulating transcription of a
 CC nucleic acid molecule, and for targeting a native viral nucleic acid
 CC sequence with a nucleic acid binding polypeptide. (I) is also useful for
 CC downregulating a viral function such as viral titre, viral infectivity,
 CC viral replication, viral packaging or viral transcription in a cell
 CC infected with the virus by contacting the virus and/or the cell with (I).
 CC (I) is also useful for modulating a viral function in a system. (I) is
 CC highly effective in repressing gene expression from nucleic acid
 CC molecules to which they bind. More preferably, they are highly effective
 CC in repressing gene expression from the HIV-1 promoter. ABB05064 to
 CC ABB05134 and ABA92738 to ABA92779 represent sequences used in the
 CC exemplification of the present invention.

QY Sequence 21 AA;
 SQ Query Match 50.5%; Score 54; DB 23; Length 21;
 Best Local Similarity 55.0%; Pred. No. 0.1;
 Matches 11; Conservative 3; Mismatches 6; Indels 0; Gaps 0;

QY 2 SDHLSRTSGHLSRDSNLT 21
 Db |||:|||||:|||||:
 2 SAHLTRSDHLSSTDSANRFX 21

RESULT 2

ID AAY95441

AC AAY95441;

DT 10-OCT-2000 (first entry)

DE Caenorhabditis elegans polypeptide at the F54D1 locus.

KW SOC/CRAC; calcium channel; store operated channel;
 calcium release activated channel; therapy; diagnosis;
 lymphocyte proliferative disorder.

OS Caenorhabditis elegans.

PN WO2000040614-A2.

PD 13-JUL-2000.

PF 20-DEC-1999; 99WO-US29996.

PR 30-DEC-1998; 98US-0114220.

PR 29-JAN-1999; 99US-0120018.

PR 22-JUN-1999; 99US-0140415.

PA (BETH-) BETH ISRAEL DEACONESS MEDICAL CENT.

PI Scharenberg AM;

DR WPI; 2000-465957/40.

PT New SOC/CRAC calcium channel polynucleotides and polypeptides used to

PT diagnose and treat proliferative disorders associated with the channel,

PT and to screen for novel modulators of the channel -

PS Example; Page 76-79; 108pp; English.

XX The present sequence is that of a Caenorhabditis elegans
 CC polypeptide at the F54D1. The polypeptide was identified as a
 CC homologue of a C. elegans protein (see AAY95440) isolated in a
 CC database search for putative calcium channel proteins. Such
 CC polypeptides were used to screen EST databases for lymphocyte
 CC homologues. Human clones (see AAY9922-24) encoding members (see
 CC AAY9435-37) of a new family of SOC (store operated channel) or CRAC
 CC (calcium release activated channel) calcium channel polypeptides
 CC were identified.

SQ Sequence 1387 AA;

Query Match 50.5%; Score 54; DB 21; Length 1387;
 Best Local Similarity 63.2%; Pred. No. 13;
 Matches 12; Conservative 0; Mismatches 7; Indels 0; Gaps 0;

QY 1 RSDHLRTSGHLSRDSNL 19
 |||||
 DB 51 RSDHLRSKSTHKLDPNPL 69

RESULT 3

AAV33370
 ID AAV33370 standard; peptide; 21 AA.

AC AAV33370;

DT 01-DEC-1999 (first entry)

DE Zinc finger clone zfhA(Y) peptide.

KM Zinc finger; DNA binding; Cys2-His2 class; 5-methylcytosine; mec;
 KW diagnostic; detection; chimera.

OS Unidentified.

PN WO947656-A2.

PD 23-SEP-1999.

PF 17-MAR-1999; 99WO-GB00816.

PR 17-MAR-1998; 98GB-0005576.

PR 31-MAR-1998; 98GB-0006895.

PR 03-APR-1998; 98GB-0007246.

PA (MED1-) MEDICAL RES COUNCIL.

PI Choo Y, Isalan M;

DR WPI; 1999-562106/47.

PT New zinc finger polypeptides that bind DNA containing modified bases,
 used as diagnostic and research reagents and for regulating gene

PS transcription -

XX Example 4; Page 36; 56pp; English.

CC This invention describes a novel zinc finger (ZF) polypeptide (I) that
 CC binds to a target DNA sequence (II) containing a modified base but not to
 CC an otherwise identical sequence containing the equivalent unmodified
 CC base. The invention also describes methods for preparing a DNA-binding
 CC polypeptide of the Cys2-His2 ZF class, able to recognize sequences
 CC containing a 5-methylcytosine (mec) residue. (I) are used as diagnostic
 CC reagents for detecting modified nucleic acids in complex mixtures,
 CC including differentiation of single-base modifications, in research and
 CC to produce chimeras, e.g. by fusion to a catalytic domain of a
 CC restriction enzyme (the product can then cleave only modified DNA), or to
 CC a DNA cleavage or activating domain (to give products that can regulate
 CC gene transcription, by sequence-specific cleavage or activation,
 CC dependent on presence of a modified base). (I) recognize modified bases
 CC in preference to unmodified ones, in a sequence-dependent manner, so have
 CC extremely high specificity. This sequence represents a zinc finger
 CC clone peptide fragment described in the method of the invention.

CC Sequence 21 AA;

QY Query Match 46.7%; Score 50; DB 20; Length 21;
 Best Local Similarity 52.4%; Pred. No. 0.45;

Matches 11; Conservative 2; Mismatches 8; Indels 0; Gaps 0;

QY 1 RSDHLRTSGHLSRDSNL 21
 |||||
 DB 1 RSDHLRTSGHLSRDSNL 21

RESULT 4
 ID AAY97414 standard; Protein; 721 AA.

AC AAY97414;

DT 14-SEP-2000 (first entry)

DE Soybean 1-deoxy-D-xylofuranose 5-phosphate synthase putative protein.

KM Soybean; 1-deoxy-D-xylofuranose 5-phosphate synthase; DXPS;
 KW isoprenoid biosynthesis; herbicide.

OS Glycine max.

PN WO200032792-A2.

PD 08-JUN-2000.

PF 02-DEC-1999; 99WO-US28587.

PR 03-DEC-1998; 98US-0110779.

PA (DUPD) DU PONT DE NEMOURS & CO E I.

PI Cahoon RE, Tao Y, Williams ME, Coughlan SJ, Weng Z;

DR WPI; 2000-412338/35.

DR N-PSDB; AAA38753.

PT Polynucleotide encoding 1-deoxy-D-xylofuranose 5-phosphate synthase enzyme
 useful for producing transgenic plants and for producing antibodies
 specific to which is useful for screening cDNA expression libraries -

PS Claim 19; Page 45-47; 73pp; English.

CC The present sequence is a putative protein sequence for the soybean
 CC 1-deoxy-D-xylofuranose 5-phosphate synthase enzyme (DXPS). The protein is
 CC involved in the isoprenoid biosynthesis pathway. Its cDNA was identified
 CC by sequencing a number of clones and then comparing their protein
 CC sequences to known proteins: this showed the sequence's similarity to the
 CC Capsicum annum DXPS sequence. The DXPS gene and protein can be used to
 CC create transgenic plants which express the gene at either different
 CC levels or at different stages of development compared to normal, and to
 CC identify herbicides.

CC Sequence 721 AA;

QY Query Match 44.6%; Score 47.7; DB 21; Length 721;
 Best Local Similarity 20.3%; Pred. No. 61;

Matches 13; Conservative 3; Mismatches 5; Indels 43; Gaps 2;

QY 1 RSD--HLSRTSGHLS-----RDS 17
 |||||

DB 103 RSDVLFHVSRTSGHLSGLGVELTIAHYVFNAPOKILMDVGHSYPHKILTGRRDK 162

QY 18 NLTR 21
 :|

DB 163 HTMR 166

RESULT 5

AA85416
 ID AA85416 standard; Protein; 179 AA.

AC AA85416;

DT 17-SEP-2001 (first entry)

DE Amino acid sequence of 3x2F ZGS construct.
 XX

KW Nucleic acid binding polypeptide; repressor domain; cardiant; nectropic;
 KW circulatory active; anti-inflammatory; dermatological; neuroprotective;
 KW cerebroprotective; antibacterial; antifungal; antiviral; antineumatic;
 KW osteopathic; gene therapy; zinc finger; binding site.
 OS Synthetic.
 XX MO200153480-A1.
 XX
 XX
 PD 26-JUL-2001.
 XX
 XX 19-JAN-2001; 2001WO-GB00202.
 XX
 XX 24-JAN-2000; 2000GB-0001582.
 XX PR 30-MAY-2000; 2000GB-0013102.
 XX PR 30-MAY-2000; 2000GB-0013103.
 XX PR 30-MAY-2000; 2000GB-0013104.
 XX
 XX (GENE-) GENDAQ LTD.
 XX
 XX Choo Y, Klug A, Moore M;
 XX
 XX WPI: 2001-451906/48.
 XX N-PSDB; AAK23364.
 XX
 XX Nucleic acid binding polypeptide; used to identify nucleic acids and
 PT treat inflammatory, neurological, and dermatological disease, comprises
 PT a repressor domain and several nucleic acid binding domains linked by
 PT non-canonical linker(s) -
 XX
 PS Example 2; Fig 3, 142pp; English.
 XX
 XX The invention relates to a nucleic acid (NA) binding polypeptide (I)
 CC comprising a repressor domain and several NA binding domains (BDs) linked
 CC by at least one non-canonical linker. (I) may be used to identify NAs in
 CC a complex mixture, to differentiate single base pair changes in NAs, in
 CC the manufacture of chimeric restriction enzymes, to produce knock out
 CC organisms, and in the treatment of diseases such as: cardiovascular,
 CC inflammatory, metabolic, infectious, neurological, rheumatological,
 CC genetic, dermatological, and musculoskeletal diseases. The invented
 CC methods are used to produce novel NA binding polynucleotides and to
 CC modify existing NA binding polynucleotides comprising several NA BDs.
 CC The novel polypeptide comprises several nucleic acid binding domains
 CC linked by linker sequences. The invented polypeptide is therefore able
 CC to span longer or variable gaps, and a greater number of gaps, between
 CC DNA binding subunits. The present sequence represents the amino acid
 CC sequence of 3x2F ZGS fusion construct made by linking the third finger of
 CC wild-type ZIF to the first finger of GAC clone using the peptide GSRP.
 XX
 XX Sequence 179 AA;
 SQ
 Query Match 44.5%; Score 47.6; DB 22; Length 179;
 Best Local Similarity 16.8%; Pred. No. 13;
 Matches 16; Conservative 1; Mismatches 4; Indels 74; Gaps 3;
 QY 1 RSDH-----SRTSG-----HLSS 14
 DB 47 RSDHLLTTRHTGTGKPKFACDTCGRKPARSDERKRTKHTGTRPYACVESCDBRFSR 106
 QY 15 -----DRSNLTR 21
 DB 107 SDELTRHRIHTGGKPFQCRICWKNFSDRSNLAR 141
 RESULT 6
 AAM93303
 ID AAM93303 standard; Protein; 386 AA.
 XX
 AC AAM93303;
 XX
 DT 06-NOV-2001 (first entry)
 XX
 XX Human polypeptide, SEQ ID NO: 2805.
 DE

XX
 KW Human; full length cDNA; cDNA synthesis; oligo-capping.
 XX
 OS Homo sapiens.
 XX EPI130094-A2.
 XX
 XX
 PD 05-SEP-2001.
 XX
 XX 07-JUL-2000; 2000EP-0114089.
 XX
 XX 08-JUL-1999; 99JP-0194486.
 XX PR 11-JAN-2000; 2000JP-0118774.
 XX PR 02-MAY-2000; 2000JP-0183765.
 XX
 XX (HELI-) HELIX RES INST.
 XX
 XX Ota T, Nishikawa T, Isogai T, Hayashi K, Iehi S, Kawai Y;
 PI Makamatsu A, Sugiyama T, Nagai K, Kojima S, Otsuki T, Koga H;
 DR WPI: 2001-524255/58.
 DR N-PSDB; AAK94223.
 XX
 XX 830 Primers useful for synthesizing full length cDNA clones and their
 PT use in genetic manipulation -
 XX
 PS Claim 8; SEQ ID NO 2805; 1380pp + sequence listing; English.
 XX
 XX The invention relates to primers for synthesizing full length cDNA
 CC clones. 830 cDNA molecules encoding a human protein have been
 CC isolated and nucleotide sequences of 5' and 3' ends of the cDNA
 CC molecules have been determined. Primers for synthesizing the full length
 CC cDNA are useful for clarifying the function of the protein encoded by
 CC the cDNA. The full length clones were obtained by construction of full
 CC length enriched cDNA libraries that were synthesised by the oligo-capping
 CC method. The primers enable the production of the full length cDNA easily
 CC without any special methods. The present sequence is a polypeptide
 CC encoded by a full length human cDNA of the invention.
 CC Note: The sequence data for this patent did not form part of the printed
 CC specification, but was obtained in CD-ROM format directly from EPO.
 XX
 XX Sequence 386 AA;
 SQ
 Query Match 44.5%; Score 47.6; DB 22; Length 386;
 Best Local Similarity 34.3%; Pred. No. 31;
 Matches 12; Conservative 3; Mismatches 6; Indels 14; Gaps 1;
 QY 1 RSDHLSR-----TSGHLSRDRSNLTR 21
 DB 251 QSAHLARHRIHTGKPKFACDTCGRKPARSDERKRTKHTGTRPYACVESCDBRFSR 285
 RESULT 7
 AAB95116
 ID AAB95116 standard; Protein; 725 AA.
 XX
 AC AAB95116;
 XX
 DT 26-JUN-2001 (first entry)
 XX
 DE Human protein sequence SEQ ID NO:17104.
 XX
 KW Human; primer; detection; diagnosis; antisense therapy; gene therapy.
 XX
 OS Homo sapiens.
 XX
 XX EPI074617-A2.
 XX
 PD 07-FEB-2001.
 XX
 XX 28-JUL-2000; 2000EP-0116126.
 XX PR 29-JUL-1999; 99JP-0248036.
 XX

PR 27-AUG-1999; 99CP-0300253.
 PR 11-JAN-2000; 2000CP-0118776.
 PR 02-MAY-2000; 2000CP-0183767.
 PR 09-JUN-2000; 2000CP-0241899.
 XX
 PA (HELI-) HELIX RES INST.
 XX Oca T, Isogai T, Nishikawa T, Hayashi K, Saito K, Yamamoto J,
 PI Ishii S, Sugiyama T, Wakamatsu A, Nagai K, Otsuki T;
 XX WPI; 2001-318749/34.
 XX
 PT Primer sets for synthesizing polynucleotides, particularly the 5602
 PT full-length cDNAs defined in the specification, and for the detection
 PT and/or diagnosis of the abnormality of the proteins encoded by the
 PT full-length cDNAs -
 XX
 PS Claim 8; SEQ ID 17104; 2537bp + CD ROM; English.
 XX
 CC The present invention describes primer sets for synthesizing 5602
 CC full-length cDNAs defined in the specification. Where a primer set
 CC comprises: (a) an oligo-dT primer and an oligonucleotide complementary
 CC to the complementary strand of a polynucleotide which comprises one of
 CC the 5602 nucleotide sequences defined in the specification, where the
 CC oligonucleotide comprises at least 15 nucleotides; or (b) a combination
 CC of an oligonucleotide comprising a sequence complementary to the
 CC complementary strand of a polynucleotide which comprises a 5'-end
 CC sequence and an oligonucleotide comprising a sequence complementary to a
 CC polynucleotide which comprises a 3'-end sequence, where the
 CC oligonucleotide comprises at least 15 nucleotides and the combination of
 CC the 5'-end sequence/3'-end sequence is selected from those defined in
 CC the specification. The primer sets can be used in antisense therapy and
 CC in gene therapy. The primers are useful for synthesizing polynucleotides,
 CC particularly full-length cDNAs. The primers are also useful for the
 CC detection and/or diagnosis of the abnormality of the proteins encoded by
 CC the full-length cDNAs. The primers allow obtaining of the full-length
 CC cDNAs easily without any specialised methods. AAH03166 to AAH13628 and
 CC AAH1633 to AAH18742 represent human cDNA sequences; AAH92446 to
 CC AAH95893 represent human amino acid sequences; and AAH13629 to AAH13632
 CC represent oligonucleotides, all of which are used in the exemplification
 CC of the present invention.
 CC
 XX
 SQ Sequence 725 AA;
 Query Match 44.5%; Score 47.6; DB 22; Length 725;
 Best Local Similarity 34.3%; Pred. No. 63;
 Matches 12; Conservative 3; Mismatches 6; Indels 14; Gaps 1;
 QY 1 RSDHLR-----TSGLISDRSNLNR 21
 DB 590 QSAHLARHORIHGKRPACDTCGRFRSSNLAR 624
 RESULT 8
 AAB85419
 ID AAB85419 standard; Protein; 181 AA.
 XX
 AC AAB85419;
 XX
 DT 17-SEP-2001 (first entry)
 XX
 DE Amino acid sequence of 3x2F ZGSU construct.
 XX
 DE Nucleic acid binding polypeptide; repressor domain; cardiant; nootropic;
 KW circulatory active; anti-inflammatory; dermatological; neuroprotective;
 KW cerebroprotective; antibacterial; antifungal; antiviral; antirheumatic;
 KW osteopathic; gene therapy; zinc finger; binding site.
 XX
 OS Synthetic.
 XX
 XX WO200153480-A1.
 XX
 XX 26-JUL-2001.
 PD

XX
 PF 19-JAN-2001; 2001MO-GB00202.
 XX
 XX 24-JAN-2000; 2000GB-0001582.
 PR 30-MAY-2000; 2000GB-0013102.
 PR 30-MAY-2000; 2000GB-0013103.
 PR 30-MAY-2000; 2000GB-0013104.
 XX
 PA (GEND-) GENDAQ LTD.
 XX
 PI Choo Y, Klug A, Moore M;
 XX WPI; 2001-451906/48.
 DR N-PSDB; AAH23567.
 XX
 PT Nucleic acid binding polypeptide, used to identify nucleic acids and
 PT treat inflammatory, neurological, and dermatological disease, comprises
 PT a repressor domain and several nucleic acid binding domains linked by
 PT non-canonical linker(s) -
 XX
 PS Example 6; Fig 6; 142pp; English.
 XX
 CC The invention relates to a nucleic acid (NA) binding polypeptide (I)
 CC comprising a repressor domain and several NA binding domains (BDs) linked
 CC by at least one non-canonical linker. (I) may be used to identify NAs in
 CC a complex mixture, to differentiate single base pair changes in NAs, in
 CC the manufacture of chimeric restriction enzymes, to produce knock out
 CC organisms, and in the treatment of diseases such as: cardiovascular,
 CC inflammatory, metabolic, infectious, neurological, rheumatological,
 CC genetic, dermatological, and musculoskeletal diseases. The invented
 CC methods are used to produce novel NA binding polynucleotides and to
 CC modify existing NA binding polynucleotides comprising several NA BDs.
 CC The novel polypeptide comprises several nucleic acid binding domains
 CC linked by linker sequences. The invented polypeptide is therefore able
 CC to span longer or variable gaps, and a greater number of gaps, between
 CC DNA binding substrates. The present sequence represents the amino acid
 CC sequence of 3x2F ZGSU fusion construct made by linking the third finger
 CC wild-type ZIF to the first finger of GAC clone using a peptide linker of
 CC the invention.
 CC
 XX
 SQ Sequence 181 AA;
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 Best Local Similarity 16.5%; Pred. No. 14;
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 QY 15 -----
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 AAB85420
 ID AAB85420 standard; Protein; 181 AA.
 XX
 AC AAB85420;
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 DT 17-SEP-2001 (first entry)
 XX
 DE Amino acid sequence of 3x2F ZGUS construct.
 XX
 DE Nucleic acid binding polypeptide; repressor domain; cardiant; nootropic;
 KW circulatory active; anti-inflammatory; dermatological; neuroprotective;
 KW cerebroprotective; antibacterial; antifungal; antiviral; antirheumatic;
 KW osteopathic; gene therapy; zinc finger; binding site.
 XX
 OS Synthetic.
 XX
 XX WO200153480-A1.
 XX
 XX

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XX 26-JUL-2001.
PD
XX
XX
XX 19-JAN-2001; 2001WO-GB00202.
PF
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XX 24-JAN-2000; 2000GB-0001582.
PR
XX 30-MAY-2000; 2000GB-0013102.
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XX 30-MAY-2000; 2000GB-0013103.
PR
XX 30-MAY-2000; 2000GB-0013104.
XX
XX (GEND-) GENDAQ LTD.
PA
XX
XX Choo Y, Klug A, Moore M;
PI
XX
XX WPI: 2001-451906/48.
DR
XX N-PSDB; AAB85417.
XX
XX Nucleic acid binding polypeptide, used to identify nucleic acids and
PT treat inflammatory, neurological, and dermatological disease, comprises
PT a repressor domain and several nucleic acid binding domains linked by
PT non-canonical linker(s) -
XX
XX Example 7; Fig 7; 142pp; English.
PS
XX The invention relates to a nucleic acid (NA) binding polypeptide (I)
XX comprising a repressor domain and several NA binding domains (BDs) linked
XX by at least one non-canonical linker. (I) may be used to identify NAs in
XX a complex mixture, to differentiate single base pair changes in NAs, in
XX the manufacture of chimeric restriction enzymes, to produce knock out
XX organisms, and in the treatment of diseases such as: cardiovascular,
XX inflammatory, metabolic, infectious, neurological, rheumatological,
XX genetic, dermatological, and musculoskeletal diseases. The invented
XX methods are used to produce novel NA binding polynucleotides and to
XX modify existing NA binding polynucleotides comprising several NA BDs.
XX The novel polypeptide comprises several nucleic acid binding domains
XX linked by linker sequences. The invented polypeptide is therefore able
XX to span longer or variable gaps, and a greater number of gaps, between
XX DNA binding subsites. The present sequence represents the amino acid
XX sequence of 3x2F ZGL fusion construct made by linking the third finger
XX of wild-type ZIF to the first finger of GAC clone using a peptide linker of
XX the invention.
XX
XX SQ Sequence 181 AA;
XX
XX Query Match 44.3%; Score 47.4; DB 22; Length 181;
XX Best Local Similarity 16.5%; Pred. No. 14;
XX Matches 16; Conservative 1; Mismatches 4; Indels 76; Gaps 3;
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XX 47 RSDHLTHIRHTGSGEKPFACDTCGRKPARSDERKHTKHTGERPYACPVESCDRHF 106
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XX DB 13 SR-----DRSNLTR 21
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XX 107 SRSDELTRHRIHTGSGQKPFQCRICRMNPSRSLNR 143
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XX RESULT 10
XX AAB85417
XX ID AAB85417 standard; Protein; 183 AA.
XX
XX AC AAB85417;
XX
XX DT 17-SEP-2001 (first entry)
XX
XX DE Amino acid sequence of 3x2F ZGL construct.
XX
XX KM Nucleic acid binding polypeptide; repressor domain; cardiant; nocrotic;
XX KM circulatory active; anti-inflammatory; dermatological; neuroprotective;
XX KM cerebroprotective; antibacterial; antifungal; antiviral; antineumatic;
XX KM osteopathic; gene therapy; zinc finger; binding site.
XX
XX OS Synthetic.

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XX MO200153480-A1.
XX
XX 26-JUL-2001.
PD
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XX 19-JAN-2001; 2001WO-GB00202.
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XX
XX (GEND-) GENDAQ LTD.
PA
XX
XX Choo Y, Klug A, Moore M;
PI
XX
XX WPI: 2001-451906/48.
DR
XX N-PSDB; AAB85417.
XX
XX Nucleic acid binding polypeptide, used to identify nucleic acids and
PT treat inflammatory, neurological, and dermatological disease, comprises
PT a repressor domain and several nucleic acid binding domains linked by
PT non-canonical linker(s) -
XX
XX Example 4; Fig 4; 142pp; English.
PS
XX The invention relates to a nucleic acid (NA) binding polypeptide (I)
XX comprising a repressor domain and several NA binding domains (BDs) linked
XX by at least one non-canonical linker. (I) may be used to identify NAs in
XX a complex mixture, to differentiate single base pair changes in NAs, in
XX the manufacture of chimeric restriction enzymes, to produce knock out
XX organisms, and in the treatment of diseases such as: cardiovascular,
XX inflammatory, metabolic, infectious, neurological, rheumatological,
XX genetic, dermatological, and musculoskeletal diseases. The invented
XX methods are used to produce novel NA binding polynucleotides and to
XX modify existing NA binding polynucleotides comprising several NA BDs.
XX The novel polypeptide comprises several nucleic acid binding domains
XX linked by linker sequences. The invented polypeptide is therefore able
XX to span longer or variable gaps, and a greater number of gaps, between
XX DNA binding subsites. The present sequence represents the amino acid
XX sequence of 3x2F ZGL fusion construct made by linking the third finger
XX of wild-type ZIF to the first finger of GAC clone using a peptide linker of
XX the invention.
XX
XX SQ Sequence 183 AA;
XX
XX Query Match 44.1%; Score 47.2; DB 22; Length 183;
XX Best Local Similarity 16.2%; Pred. No. 15;
XX Matches 16; Conservative 1; Mismatches 4; Indels 78; Gaps 3;
XX
XX QY 1 RSDHL-----SRTSG-----HL 12
XX |||||
XX 47 RSDHLTHIRHTGSGEKPFACDTCGRKPARSDERKHTKHTGERPYACPVESCDRHF 106
XX
XX DB 13 SR-----DRSNLTR 21
XX |||||
XX 107 SRSDELTRHRIHTGSGQKPFQCRICRMNPSRSLNR 145
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XX RESULT 11
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XX ID AAG23358 standard; Protein; 171 AA.
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XX AC AAG23358;
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XX DT 17-OCT-2000 (first entry)
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XX DE Arabidopsis thaliana protein fragment SEQ ID NO: 26636.
XX
XX KM Protein identification: signal transduction pathway; metabolic pathway;
XX KM hybridisation assay; genetic mapping; gene expression control; promoter;
XX KM termination sequence.
XX
XX

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OS Arabidopsis thaliana.
XX
PN EPI033405-A2.
XX
PD 06-SEP-2000.
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PF 25-FEB-2000; 2000EP-0301439.
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RESULT 12
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XX
AC AAG23357;
XX
DT 17-OCT-2000 (first entry)
DE Arabidopsis thaliana protein fragment SEQ ID NO: 26635.
XX
XX Protein identification; signal transduction pathway; metabolic pathway;
KM hybridisation assay; genetic mapping; gene expression control; promoter;
XX termination sequence.
OS Arabidopsis thaliana.
XX
XX EPI033405-A2.
XX
XX 06-SEP-2000.
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XX 25-FEB-2000; 2000EP-0301439.

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Query Match 43.7%; Score 46.8; DB 21; Length 196;
Best Local Similarity 33.3%; Pred. No. 19;
Matches 10; Conservative 4; Mismatches 4; Indels 12; Gaps 1;

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Db 142 KQHHLADCTMDKACKNCRTSGHIAIDCRN 171

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AC AAG23356;
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DT 17-OCT-2000 (first entry)
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XX Protein identification; signal transduction pathway; metabolic pathway;
XX hybridization assay; genetic mapping; gene expression control; promoter;
XX termination sequence.
OS Arabidopsis thaliana.
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XX EP1033405-A2.
PN
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XX 06-SEP-2000.
PD
XX
PF 25-FEB-2000; 2000EP-0301439.
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Query Match 43.7%; Score 46.8; DB 21; Length 199;
Best Local Similarity 33.3%; Pred. No. 19;
Matches 10; Conservative 4; Mismatches 4; Indels 12; Gaps 1;

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AC AAG22824;
DT 17-OCT-2000 (first entry)
DE Arabidopsis thaliana protein fragment SEQ ID NO: 25900.

KM Protein identification; signal transduction pathway; metabolic pathway;
KW hybridisation assay; genetic mapping; gene expression control; promoter;
termination sequence.

XX Arabidopsis thaliana.

XX EP1033405-A2.

XX 06-SEP-2000.

PF 25-FEB-2000; 2000EP-0301439.

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Query Match 43.7% Score 46.8; DB 21; Length 229;
Best Local Similarity 33.3%; Pred. No. 22;
Matches 10; Conservative 4; Mismatches 4; Indels 12; Gaps 1;
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RESULT 15
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KW Protein identification; signal transduction pathway; metabolic pathway;
hybridisation assay; genetic mapping; gene expression control; promoter;
termination sequence.
XX
OS Arabidopsis thaliana.
XX
PN EP1033405-A2.
XX
PD 06-SEP-2000.
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PF 25-FEB-2000; 2000EP-0301439.
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PR	18-JUN-1999;	99US-0139460.
PR	18-JUN-1999;	99US-0139461.
PR	18-JUN-1999;	99US-0139462.
PR	18-JUN-1999;	99US-0139463.
PR	18-JUN-1999;	99US-0139750.
PR	21-JUN-1999;	99US-0139763.
PR	21-JUN-1999;	99US-0139817.
PR	22-JUN-1999;	99US-0139899.
PR	23-JUN-1999;	99US-0140353.
PR	23-JUN-1999;	99US-0140354.
PR	24-JUN-1999;	99US-0140695.
PR	28-JUN-1999;	99US-0140823.
PR	29-JUN-1999;	99US-0140891.
PR	30-JUN-1999;	99US-0141287.
PR	01-JUL-1999;	99US-0141842.
PR	01-JUL-1999;	99US-0142154.
PR	02-JUL-1999;	99US-0142055.
PR	06-JUL-1999;	99US-0142930.
PR	08-JUL-1999;	99US-0142930.
PR	09-JUL-1999;	99US-0142920.
PR	12-JUL-1999;	99US-0142977.
PR	13-JUL-1999;	99US-0143542.
PR	14-JUL-1999;	99US-0143524.
PR	15-JUL-1999;	99US-0144005.
PR	16-JUL-1999;	99US-0144085.
PR	16-JUL-1999;	99US-0144086.
PR	19-JUL-1999;	99US-0144325.
PR	19-JUL-1999;	99US-0144321.
PR	19-JUL-1999;	99US-0144332.
PR	19-JUL-1999;	99US-0144333.
PR	19-JUL-1999;	99US-0144334.
PR	19-JUL-1999;	99US-0144335.
PR	20-JUL-1999;	99US-0144352.
PR	20-JUL-1999;	99US-0144632.
PR	20-JUL-1999;	99US-0144884.
PR	21-JUL-1999;	99US-0144814.
PR	21-JUL-1999;	99US-0145086.
PR	21-JUL-1999;	99US-0145088.
PR	22-JUL-1999;	99US-0145085.
PR	22-JUL-1999;	99US-0145087.
PR	22-JUL-1999;	99US-0145089.
PR	22-JUL-1999;	99US-0145192.
PR	23-JUL-1999;	99US-0145145.
PR	23-JUL-1999;	99US-0145216.
PR	23-JUL-1999;	99US-0145224.
PR	26-JUL-1999;	99US-0145276.
PR	27-JUL-1999;	99US-0145913.
PR	27-JUL-1999;	99US-0145918.
PR	27-JUL-1999;	99US-0145919.
PR	28-JUL-1999;	99US-0145951.
PR	02-AUG-1999;	99US-0146386.
PR	02-AUG-1999;	99US-0146388.
PR	02-AUG-1999;	99US-0146389.
PR	03-AUG-1999;	99US-0147038.
PR	04-AUG-1999;	99US-0147204.
PR	04-AUG-1999;	99US-0147302.
PR	05-AUG-1999;	99US-0147192.
PR	05-AUG-1999;	99US-0147260.
PR	06-AUG-1999;	99US-0147303.
PR	06-AUG-1999;	99US-0147416.
PR	08-AUG-1999;	99US-0147493.
PR	09-AUG-1999;	99US-0147935.
PR	10-AUG-1999;	99US-0148171.
PR	11-AUG-1999;	99US-0148319.
PR	12-AUG-1999;	99US-0148341.
PR	13-AUG-1999;	99US-0148565.
PR	13-AUG-1999;	99US-0148684.
PR	16-AUG-1999;	99US-0149368.
PR	17-AUG-1999;	99US-0149175.
PR	18-AUG-1999;	99US-0149426.
PR	20-AUG-1999;	99US-0149722.
PR	20-AUG-1999;	99US-0149723.
PR	20-AUG-1999;	99US-0149929.
PR	23-AUG-1999;	99US-0149902.
PR	23-AUG-1999;	99US-0149930.
PR	25-AUG-1999;	99US-0150566.
PR	26-AUG-1999;	99US-0150884.
PR	27-AUG-1999;	99US-0151065.
PR	27-AUG-1999;	99US-0151066.
PR	30-AUG-1999;	99US-0151080.
PR	31-AUG-1999;	99US-0151303.
PR	31-AUG-1999;	99US-0151438.
PR	01-SEP-1999;	99US-0151930.
PR	07-SEP-1999;	99US-0152363.
PR	10-SEP-1999;	99US-0153070.
PR	13-SEP-1999;	99US-0153758.
PR	15-SEP-1999;	99US-0154018.
PR	16-SEP-1999;	99US-0154039.
PR	20-SEP-1999;	99US-0154779.
PR	22-SEP-1999;	99US-0155139.
PR	23-SEP-1999;	99US-0155486.
PR	24-SEP-1999;	99US-0155659.
PR	28-SEP-1999;	99US-0156458.
PR	29-SEP-1999;	99US-0156596.
PR	04-OCT-1999;	99US-0157117.
PR	05-OCT-1999;	99US-0157183.
PR	06-OCT-1999;	99US-0157865.
PR	07-OCT-1999;	99US-0158029.
PR	08-OCT-1999;	99US-0158232.
PR	12-OCT-1999;	99US-0158369.
PR	13-OCT-1999;	99US-0158929.
PR	13-OCT-1999;	99US-0158929.
PR	13-OCT-1999;	99US-0158929.
PR	13-OCT-1999;	99US-0158929.
PR	13-OCT-1999;	99US-0158929.
PR	14-OCT-1999;	99US-0159330.
PR	14-OCT-1999;	99US-0159331.
PR	14-OCT-1999;	99US-0159637.
PR	14-OCT-1999;	99US-0159638.
PR	18-OCT-1999;	99US-0159584.
PR	21-OCT-1999;	99US-0160741.
PR	21-OCT-1999;	99US-0160767.
PR	21-OCT-1999;	99US-0160768.
PR	21-OCT-1999;	99US-0160770.
PR	21-OCT-1999;	99US-0160814.